CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 7, 1911.

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

New York.—New York Central Lines.—An agreement has been made between the City of Kingston and the New York Central Lines, the New York, Ontario & Western R. R., and the Ulster & Delaware R. R., for the elimination of certain grade crossings in that city.

New Jersey.—Delaware, Lackawanna & Western R. R. — Announcement has been made that an agreement has been signed by Mayor Ernest C. Hinck and the Lackawanna R. R. for terminal improvements and grade crossing elimination in Montclair, N. J., involving about $500,000.

Pennsylvania.—Baltimore & Ohio R. R.—Negotiations have been concluded between Elwood City and this railroad for eliminating the grade crossing at Fifth St. The approximate cost is $60,000.

Pennsylvania. — Manatawny R. R. — Contracts will soon be let for construction on this line from Douglasville to Spangsville. The work is light, involving only one small bridge. M. J. Person, Bethlehem, Pa., is Pres. Noted Aug. 17.

South Carolina.—Charleston & Western R. R.—Contracts will be let next year to build a line from Mount Pleasant northeast to Guerrins Bridge, 62 miles, by way of Bonneau. This will be largely used for lumber. Those identified with it are A. C. Tuxbury and Charles Hill, of the Northern Lumber Co., Tonawanda, N. Y. A. C. Tuxbury, Harrison Ave., Montclair, N. J., is Pres.

Florida, — Atlantic, Okeechobee & Gulf R. R.—Announcement has been made that contracts will be let about Nov. 15 for the extension of this line from Tampa to Fort Lauderdale.

Illinois.—Chicago, Milwaukee & St. Paul R. R.—Plans are being prepared for the elimination of grade crossings in Chicago on the Council Bluffs & Evanston Division of this railroad. This will mean the elimination of 36 grade crossings, at an expenditure of $4,500,000. The company has until 1915 to complete this work. The company likewise has until 1917 to elevate its tracks from Montrose Boulevard to the limits of the City of Chicago. This will eliminate 38 grade crossings

Wisconsin.—Fairchild & Northeastern R. R.—Press reports state that this company will extend its line into Trempeleau and Buffalo Counties.

Arkansas.—Gould Southwestern R. R.—Contracts will be let this year for an extension from Star City to Fordyce, about 33 miles. The work will be light, with a small amount of grading. S. Newhouse, 71 Broadway, New York City, N. Y., is Pres.

✚**New Mexico.**—San Diego, El Paso & St. James R. R.—A contract has been let for the construction of 25 miles of road, between Hope and Artesia, to the McCARTHY CONSTRUCTION CO., Houston, Tex. McNEAL & MAHONEY will do the grading work. The road will be continued east from Artesia to a point on the Fort Worth & Denver City R. R., either at Quanah, Tex., or Vernon, Tex., about 300 miles. A. Courchesne, El Paso, Tex., is Pres. P. A. McCarthy, Houston, Tex., is Ch. Engr.

✚**Arizona.**—El Paso & Southwestern R. R.—The following additional subcontracts have been awarded by MacArthur Bros. Co., 11 Pine St., New York, N. Y., with a field office at Benson, Ariz.: Sec. 34 to 38, to ELY CONSTRUCTION CO., Springville, Utah; Sec. 39 to 41, to VOSBURG & CARLSON CONSTRUCTION CO., Denver, Colo.; Sec. 1 to 3, to the REIWITZ CONSTRUCTION CO., Denver. The grading from Tucson to Cooke, to ALLEN CO., Denver, and another contract to MAURICE RYAN, Pueblo, Colo. Additional Contracts were noted in our issue of Aug. 31.

Oregon.—Pacific Coast Line Ry. Co.—This company has recently been incorporated to build a railway from Portland, Ore., to Humboldt Bay, Cal., with branches to Tillamook Bay, Ore., and Eugene, Ore. T. V. Ward, Portland, Ore., is interested.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

Erving, Mass.—The Millers River Street Ry., Millers Falls, has received a franchise to lay its tracks in Erving. F. L. Greene is interested. Noted under Montague, Mass., July 6.

Meriden, Conn.—The Berlin St. Ry. Co. has been organized to build a railway from Meriden to Berlin, with a branch from Berlin to New Britain. H. M. Kochersperger is Pres., and J. T. Kelly, New Haven, is Secy.

Little Falls, N. Y.—The Little Falls & Johnstown Ry. Co. is reported to be considering a plan to build a 28-mile line connecting Little Falls, St. Johnsville, Eupratah and Johnstown, for which a franchise has been granted. J. L. Hess, 103 Park Ave., New York, is Pres.

Chatham, N. J.—The Morris County Traction Co. has received a franchise to lay tracks in Main St.

Douglassville, Pa.—The Manatawny R. R., has been incorporated to build an 8-mile railway between Douglassville and Spangville. Milton J. Jerson, Bethlehem, Pa., is Pres.; John Palmer, Jr., Jersey City, N. J.; Stephen Robinson, Jr., Audubon, N. J.; Lewis F. Huthmacher, Bethlehem; Charles M. Allen, Bayonne, N. J.; Daniel J. Driscoll, Reading, and Robert L. Runyon, Allentown, are the incorporators.

Hanover, Pa.—The Hanover & McSherrytown Street Ry. Co. contemplates building an extension for which rights of way have been secured. R. B. McKinnon, Hanover, is Ch. Engr.

Sunbury, Pa.—The Sunbury & Northumberland Electric Ry. Co. will probably extend its line to connect Sunbury, Milton, Montandon and East Lewisburg, where a connection will be made with the Lewisburg, Milton & Watsontown Passenger Ry. Co. John F. Whittaker, Harrisburg, is Pres.

Waynesburg, Pa.—The Waynesburg & Blacksville Street Ry Co. contemplates the construction of a railway for which a franchise has been granted, connecting Waynesburg, Blacksville and Spraggtown. W. M. Laws, Waynesburg, is Pres.

Richmond, Va.—The Washington & Old Dominion R. R. Co. has decided upon a route for its proposed railway, which will start, according to present plans, at a point below Dominion Heights and extend to Falls Church. Surveys have been nearly completed and it is stated that negotiations with the Southern R. R. are being made for the purchase of the old Bluemont R. R. Charles M. Henckley is Pres.

New Cumberland, W. Va.—The County Court has granted a franchise for a street railway to the Steubenville, Wellsburg & Weirton Ry. Co., to construct its tracks over certain county roads in the Butler district.

Rock Hill, S. C.—Press reports state that the North Carolina Traction Co. has been granted a franchise to build a railway. W. L. Law Co., this city, are the Engrs.

Cleveland, Ohio.—It is stated that the Cleveland, Barberton, Coshocton & Zanesville Ry. Co. has negotiated a bond issue for $2,000,000. Work will probably begin in the near future.

Chicago, Ill.—Press reports state that the Chicago Suburban Traction Co. has been incorporated to build a railway out of Chicago. Louis J. Behin, H. Morton Taylor and Frank R. Utely are the incorporators.

Marengo, Ill.—A franchise has been granted to the Woodstock & Sycamore Traction Co. for the purpose of building a street railway in Marengo. B. Armstrong, Sycamore, is Ch. Engr.

Kewanee, Ill.—The Kewanee, Bradford & Henry Interurban R. R. Co. has asked for a franchise to build a railway through Kewanee, Osceola, Bradford, Broadmoor, Whitfield and Henry.

Burlington, Iowa.—A franchise has been granted to the People's Gas & Electric Co. to double track its North Hill line on Fourth St. to Osborn St., in Burlington.

✚**Iowa City, Iowa.**—A contract to build 70 miles of interurban road, linking Iowa City and Davenport has been awarded to C. E. COON, Omaha, Neb., by the Iowa City & Davenport Interurban Ry. Co. The cost of construction is estimated at $2,000,000.

Halstead, Kan.—The Wichita Railroad & Light Co. is reported to have received a franchise in Halstead. This is a part of a plan to extend its line from Wichita to Hutchinson by way of Burrton and Halstead. E. C. Clemmons, Wichita, is Ch. Engr.

Watertown, S. Dak.—A franchise has been granted to Ferris Bros., giving them permission to build a railway in Watertown and extend it to Lake Kampeska. Noted Aug. 10.

Corpus Christi, Tex.—The Corpus Christi St. & Interurban Ry. Co. is planning, it is stated, to build an extension from Corpus Christi to Ingleside. D. Hewitt, this city, is Pres.

South Austin (Austin post-office), **Tex.**—The South Austin Street Ry. Co. has been chartered to operate a railway in South Austin. J. H. Green, F. H. Faust, T. M. West and C. V. Birkhead, San Antonio, and E. B. Birkhead, Dallas, are the incorporators.

Salt Lake City, Utah.—The Utah & Salt Lake Electric Ry. Co. has made surveys and, according to press reports, construction will begin in the near future. This line will connect Salt Lake City and Payson, about 70 miles. Stephen Chipman is interested.

Brigham, Utah.—A traction line will be built by the Ogden Portland Cement Co. for which a franchise has been applied. The plan is to build a line in the city and extend it to its factory located about six miles northwest of this city.

Roslyn, Wash.—The Kittitas Railway & Power Co., Cle Elum, will soon award contracts for the construction of a railway between Roslyn and Cle Elum, by way of Ronald and Janesville, about 38 miles. H. N. DeWolfe, Box 656, Tacoma, is Secy.

Wenatchee, Wash.—Surveys are being made between Wenatchee and Cashmere, which is a section of the proposed line terminating at Leavenworth, to be built by the Wenatchee Valley Ry. & Power Co.

Portland, Ore.—The Oregon Electric Ry. Co. will probably begin building its extension from Portland to Eugene. L. B. Wickersham, Portland, is Ch. Engr.

Bay City, Ore.—The Portland & West Coast R. R. & Navigation Co. has made application for a charter to build a railway between Minnville and Bay City, by way of Willamina, Grand Ronde, Tillamook, Sheridan and Pacific City. The company also plans to furnish power and light for Sheridan, Willamina and Tillamook, the power to be secured from the Little Nestucca River. W. F. Prier, C. F. Hendricksen and Jay H. Upton, Headquarters, Portland, are the incorporators.

San Jose, Cal.—The San Jose Ry. Co. has made application for a 50-year franchise to extend its lines along Willow St., Delmas Ave. and Lincoln Ave.

San Rafael, Cal.—An application has been made by George D. Shearer, San Rafael, for a franchise to build a railway. The franchise provides for four different routes.

Santa Clara, Cal.—A franchise has been applied for by the Peninsula Ry. Co., 143 South Market St., San Jose, to secure permission to lay tracks in Saratoga Ave., from Meridian Corners to the town limits of Santa Clara; this is a plan to connect its interurban line with the line out of Alameda to Santa Clara, thus forming a loop. F. V. McPeak is Ch. Engr.

Sebastopol, Cal.—The Petaluma & Santa Rosa Ry. Co. has been granted a franchise, it is stated, to build a street railway. E. M. Van Frank, Petaluma, is Gen. Mgr.

Los Angeles, Cal.—A new electric line is to be built by the Los Angeles Ry. Corporation north from Boyle Heights, according to an application filed with the Board of Supervisors. The road is to run from the Boyle Heights line at Gage St., east of the city limits, north to a point east of Eastlake Park. It will cross the Elmonte Road about half a mile east of the Pacific Electric Ry. crossing over the Southern Pacific near Eastlake Park, and a franchise is necessary from the county for that purpose. Otherwise, the line will be built on a private right-of-way. This crossing is to be overhead and not on grade. The line also will cross the Covina electric line.

Yuba City, Cal.—The Northern Electric Ry. Co. will extend its line from Yuba City to Colusa, it is stated. Rights-of-way have been secured and franchises obtained. A bridge will probably be built over the Sacramento River at Meridan. A. D. Schindler, San Francisco, is Gen. Mgr. It is estimated that $1,000,000 will be expended.

Montreal, Que.—The Board of Control has reported favorably on the application of the Montreal Street Ry. to construct a new belt line in the city, including the tracks on Prince Arthur Ave., from St. Lawrence Boulevard to Cadieux St. E. A. Robert is Pres. Montreal St. Ry.

Toronto, Ont.—Bids will be received about Sept. 15 by Mayor Geary, Chn., Bd. of Control, for the construction of approximately three miles of double-track underground subway.

Calgary, Alta.—Extensions and improvements involving an expenditure of $320,620 to the municipally owned street railway will be recommended to the City Council by the City Commissioners.

A NEW CUYAHOGA RIVER BRIDGE.

The County Commissioners of Cuyahoga County, Ohio, have recently disposed of $500,000 worth of bonds to secure a site for a high-level viaduct to be built over the Cuyahoga River at Cleveland, Ohio. This viaduct will take the place of the present bridge, which has been a source of continual annoyance to the traffic on account of the drawn-span at the river channel.

The present draw is situated at a bend of the river, and the 600-ft. ore boats frequently have trouble passing the open draw. For many years the question of building a high-level bridge, eliminating the draw span, has been agitated, but until recently economic and political conditions have been successful in defeating the project.

The City of Cleveland having failed to obtain the necessary two-thirds majority for the bond issues, the County undertook to build the bridge. As the site is on a county road and as it was necessary for the county to obtain only a majority vote, this method seemed to promise a solution of the problem, and at an election held last November the county was authorized to proceed with the construction of the bridge. A suit was started to restrain the county from building the bridge. This was carried through the courts to the State Supreme Court, which decided in favor of the county.

Preliminary meetings of representative interests recommended a site which practically connects the termini of the present viaduct. This site is on a straight center line which differs from the present curved viaduct. Preliminary plans have been prepared by the county engineers for a doubledeck structure. The upper deck carries a 45-ft. roadway and two 14-ft. sidewalks. On the lower deck provision has been made for six car tracks. The river channel is spanned by a steel arch of 560-ft. span, giving a clearance for navigation of 95 ft. The approaches on each side are ribbed steel-concrete arches.

The total length of the bridge is 3,150 ft., and the estimated cost, including the site, is about $3,000,000.

The plans are being prepared, under the direction of the County Engineer, Mr. F. R. Lander, by the County Bridge Engineer, Mr. A. M. Felgate. A board of consulting engineers has been appointed to check the design and to cooperate with the County Engineer on the economic and technical features connected with the project. This board is composed of Messrs. Waddell & Harrington, of Kansas City, Mo., Consulting Engineers; Mr. J. W. Frazier, Consulting Engineer, Cleveland, Ohio, and Mr. F. W. Striebinger, Consulting Architect, Cleveland, Ohio.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

Binghamton, N. Y.—The installation of a boulevard lighting system and the placing of wires underground on Court St., has been voted by the citizens. S. W. Murray is City Clk.

Jay, N. Y. — The Keeseville Electric Co. has been granted authority to exercise franchises for the distribution of electricity in Jay, Essex County and Ausable, Clinton County, to build a transmission line of 15 miles from Ausable Chasm through these towns and also to supply electricity in Ausable Chasm.

Freeport, L. I., N. Y.—The Municipal electric lighting plant will be improved by an expenditure of $10,000 and $5,000 will be spent for waterworks improvements.

✚New York, N. Y.—A contract has been awarded by the Department of Correction, 148 E. 20th St., for which bids were opened on Aug. 10, for the installation of an electric feeder system on Harts Island, N. Y., to the ELECTRIC CONSTRUCTION & SUPPLY CO., 39 Cortlandt St., New York, N. Y., at $4,821.

Syracuse, N. Y.—The bids received for installing piping system at the Syracuse Institution for Feeble Minded Children on Aug. 23, were: W. B. Armstrong, Albany, N. Y., $7,890; Frank Leavey, Syracuse, $8,984; Edward Joy Co., Syracuse, $9,889; Wm. P. Murphy, Syracuse, $9,987; Thomas F. Gildea, Syracuse, $9,100; Dennis McCarthy, Syracuse, $9,800; R. T. Ford Co., Rochester, N. Y., $8,587. For electric wiring: William W. Hyde, Central Islip, N. Y., $16,675; Conduit Electric Co., Syracuse, $16,987; Edward Joy Co., Syracuse, $17,750: Frost & Sheldon, Albany, N. Y., $19,326.

Bismarck, N. J.—Street lights to be placed along the principal streets of the business section of the city have been authorized.

Pittsburgh, Pa. — The Allegheny County Light Co. contemplates making extensions and improvements estimated to cost $700,000, it is reported.

✚Washington, D. C.—A contract has been awarded to the STANDARD ENGINEERING CO. for heating and ventilating of Union Savings Bank Building. Plans by Milburn, Heister & Co., Home Life Bldg., Washington, D. C.

Washington, D. C.—Bids will be received at the office of Maj. F. C. Boggs, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until Sept. 4, for furnishing vitrified tiles, mandrels for tile, dynamite, calcium carbide and telephone cable. Additional information relating to this circular (No. 645) may be obtained at the above office or at the following places, the offices of the Assistant Purchasing Agents, at 24 State St., New York, N. Y.; 614 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.

Bids will be received until Sept. 23 at the office of Maj. F. C. Boggs, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing copper conductor bars and splice bars. Additional information relating to this circular (No. 647) may be obtained at the above office or at the following places, offices of the Assistant Purchasing Agents, 24 State St., New York, N. Y.; 614 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.

Danville, Va.—The Scofield Engineering Co., Consult. Engrs., Philadelphia, Pa., has been retained to prepare plans and specifications and supervise the construction of a municipal electric-light plant. Frank Talbott is Purchasing Agt. and Treas. of the Water & Light Dept.

✚Hampton, Va.—A contract for street lighting has been awarded to the NEWPORT NEWS & OLD POINT RY. & ELECTRIC CO., for a period of five years. The company will furnish arc lamps at $75 each a year with all night service; tungsten cluster lamps, with all night service, at $45 each a year, and midnight service at $35 each a year, and also 60 candle power tungsten lamps at $20 a lamp a year.

✚Richmond, Va.—The contracts for turbines and hydraulic apparatus to be installed by the Appalachian Power Co., has been awarded to the I. P. MORRIS CO., Philadelphia, Pa., and for electrical apparatus to the GENERAL ELECTRIC CO., Schenectady, N. Y. Viele, Blackwell & Buck, 49 Wall St., New York, N. Y., are the Design. Engrs.

Masontown, W. Va.—H. C. Greer, Pres. of the Preston County Coke Co., Cascade, W. Va., has been granted a franchise to install a street lighting system and furnish power from the plant, at Cascade, owned by the company.

✚Savannah, Ga.—A contract has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., East Pittsburg, Pa., by the Savannah Electric Co., for three double-equipment, No. 307 interpole railway motors with a 36-F. controller.

✚Jacksonville, Fla.—A contract has been awarded by the Board of Bond Trustees to the GENERAL ELECTRIC CO., Schenectady, N. Y., for supplying the city with transformers. The FORT WAYNE ELECTRIC CO., Fort Wayne, Ind., was also awarded the contract for the yearly supply of meters.

Camden, Tenn.—A charter has been issued by the Secretary of State to the Camden Water & Light Co., to furnish water and lights to the city and to private individuals. John T. Harrington is Pres.

✚Gallatin, Tenn.—A contract has been awarded by the Mayor and Aldermen for engine and pumps for the pumping station and electric light plant, to the ALLEN ENGINEERING CO., Memphis, Tenn. The CROCKER-WHEELER CO., Ampere, N. J., was awarded the contract for switchboard and generators. The cost is estimated at $8,075.

✚Cincinnati, Ohio.—A contract has been let by the Cincinnati Traction Co., Cincinnati, to the WESTINGHOUSE ELECTRIC & MFG. CO., for an equipment for generating station and three substations consisting of one 6,000 KVA., 1,500 r.p.m., 25 cycle, 13,200/6,600 volts, 3-phase turbo generator, with direct connected exciter; five 1,500 KW., 25 cycle, 6-phase, 600 volt, direct current, 250 r.p.m., rotary converters, self-starting from A. C. end; 16 500 KVA., 25 cycle, 13,200/6,600 volt, oil-insulated, self-cooled transformers; also four switchboards for control of the above apparatus.

Nelsonville, Ohio.—A site has been purchased by John A. Stewart of Cincinnati, Pres. of the Hocking Electric Power Co., on which it is proposed to build a power plant, having a capacity of 10,000-KW. The company now operates a smaller plant here.

Lima, Ohio.—Bids will be received until Sept. 15 by George E. Whitney, Secy. of Comn., for 1,600-HP. water-tube boilers, in 200-HP units; six engines ranging from 135 to 265 HP.; six generators ranging from to 75 KW. to 150 KW.; an eleven-panel switchboard and necessary equipment of heaters, pumps and pipe. Plans are on file at the office of J. G. Lorimer, Supt. of Constr., at the building site, near Lima, Ohio, and at the office of F. L. Packard, Arch., 1214 New Hayden Bldg., Columbus, Ohio.

Columbus, Ohio.—H. S. Holton, Dir. of Pub. Ser., rejected all bids for the construction of a cluster lighting system and for castings and ornamental cast iron standards. David A. Jones, is Clk.

Big Rapids, Mich.—A municipality-owned dam and power plant is projected, to be located on the Muskegon River at Ryan's Creek. The cost is estimated at $250,000. Plans are being prepared by Ray King.

Stanton, Mich.—A bond issue of $10,000 has been voted by the citizens for the construction of an electric light plant and water-works.

Gillespie, Ill.—Bids will be received until Sept. 12 by G. W. Schmidt, City Clk., for lighting the city for a period of five, ten or 15 years.

✚Minocqua, Wis.—A contract for installing a new lighting system has been awarded to the CENTRAL CONSTRUCTION CO., Oshkosh, Wis. The estimated cast is $7,500.

✚Tower, Minn. — Contracts were awarded on Aug. 20 for the construction of the municipal hydro-electric plant at Pike River Falls, as follows: Dam and power house, H. L. BARTLETT CO., at $11,738; transmission line, BOWE & BARKER, at $4,224; turbine and head gate hoist, DAYTON GLOBE IRON WORKS, at $2,474; dynamos, electric machinery, FORT WYANE ELECTRICAL CO., at $2,690; water wheels, the DAYTON IRON GLOBE MFG. CO., Dayton, Ohio; wiring, F. McCORMICK, Duluth, Minn.

✚Topeka, Kan.—A contract has been awarded for erecting an electric transmission line about two miles long, starting at the plant owned by the Topeka Edison Co., Topeka, to the Industrial Institute, this includes the placing of wires underground, for street lamps and for wiring seven buildings on the institution grounds, has been awarded to H. B. HOWARD, Topeka.

Arlington, S. Dak.—W. C. Allen and Adam Royin are considering plans for the installation of an electric light plant.

✚Monett, Mo.—A contract has been awarded for a municipal electric light system for which bids were opened on Aug. 29, to SQUIRE ELECTRICAL CONSTRUCTION CO., Kansas City, Mo., at $27,928.

St. Louis, Mo.—Bids will be received by the Board of Public Improvements, 300 New City Hall, until noon, Sept. 15, for furnishing and installing electric conduit and cables to connect the New City Hall power plant with other municipal buildings. Specifications at office of Maxime Reber, Pres. of the Board. C. A. Moreno, Secy. Pro tem.

Mulrow, Okla. — The installation of an electric light plant and waterworks system are being considered.

✚Elephant Butte, N. Mex.—A contract has been awarded by the Department of the Interior to W. E. ANDERSON, El Paso, Tex., for machinery to be installed at the new power plant.

✚Twin Falls, Idaho.—A contract has been awarded by the Great Shoshone & Twin Falls Water Power Co., to the WESTINGHOUSE ELEC. & MFG. CO., East Pittsburg, Pa., for five 75 KVA., 24,000 volt, oil-insulated, self-cooled transformers.

Spokane, Wash.—The Inland Empire Paper Co., Millwood, has under consideration the erection of a power plant, the estimated cost of which is $400,000.

Sumas, Wash.—A municipal electric lighting system is being considered at an esimated cost of $7,000.

Salem, Ore.—The Portland Ry. Light & Power Co. is considering a plan to install a lighting system using cluster lamps.

✚San Francisco, Cal.—A contract has been awarded to the PACIFIC GAS & ELECTRIC CO., San Francisco, by the WESTINGHOUSE ELECTRIC & MFG. CO., East Pittsburg, Pa., for ten 1,000 KVA., oil-insulated, self-cooled, tubular type, 11,000 volt transformers.

Bakersfield, Cal.—The Bakersfield Gas & Electric Light Co., has been incorporated. A capital stock of $100,000 has been subscribed. Directors, H. A. Jastro, H. A. Blodget, L. C. McAfee, L. P. St. Clair, and Charles E. Jewett, all of Bakersfield.

✚Colton, Cal.—A contract has been awarded the F. O. ENGSTROM CO., Fifth and Seaton Sts., Los Angeles, at $16,000, for the construction of a concrete sub-station at Colton by the Southern California Edison Co., Los Angeles.

Los Angeles, Cal.—Specifications for machinery capable of generating 30,000 HP. and peak load capacity of 37,500 HP. from the aqueduct supply, are prepared and bids will be advertised about Oct. 1, by the Pub. Service Comn. E. F. Scattergood is Elect. Engr.

Bids will be received by the County Supervisors until Sept. 18, for installing electrc fixtures in the Historical and Arts Museum Building in Agricultural Park. Hudson & Munsell, Stimson Bldg., are the Archs.

Bids will be received until Seut. 25 by the County Supervisors, for installing a heating and ventilating system in the Historical and Arts Museum Building in Agricultural Park. Hudson & Munsell, Stimson Bldg., are the Archs.

Port Stanley, Ont. — The installation of a hyrdo-electric light and power plant is being considered at an expenditure of $12,750.

✚Sault Ste. Marie, Ont.—The Lake Superior Power Co. has awarded a contract to the AMBURSEN HYDRAULIC CONSTRUCTION CO., Ltd., of Canada for a dam 50 ft. high and 230 ft. long, across the Magpie River, at Steep Falls, Ont. The contract also includes a detached power house below the dam.

Winnipeg, Man. — Bids will be received until Sept. 12 by the Board of Control for the manufacture and delivery of the following apparatus: Section A, D. C. and A. C. meters; Section B, transformers and cutouts; section C, line oil switches. Specifications and forms may be obtained at office of Gen. Mgr. Light and Power Dept., 449 Main st. M. Peterson is Secy. of the Bd.

Scott, Sask.—Bids will be received by G. M. Phillips, Secy.-Treas., until noon, Sept. 25, for the supply and delivery of the following machinery and materials, and for the performance of certain work: (a) Supply and Delivery of generator and exciter and switchboard; transformers and meters; series tungsten street lighting system; pumping machinery; (b) supply and delivery of two pneumatic storage tanks; (c) supply and delivery of approximately 2,200 ft. of 8-in. pipe; 7,000 ft. of 6-in. and 5,400 ft. of 4-in. steel water pipe; 15 hydrants and 22 valves; (d) trenching and laying steel water pipe, setting hydrants, valves, etc., and back filling; (e) erection of a power house and construction of a reservoir. McArthur & Murphy are Engrs., Bottomly Block, Saskatoon, Sask.

BRIDGES.

(*✚Denotes a contract awarded.*)

New Portland, Me.—Bids will be received by the Board of Selectmen, until Sept. 15, for constructing a reinforced concrete bridge over Gilman Stream in Northern New Portland. The bridge will consist of two 30-ft. and two 21-ft. spans. Plans are on file at the office of the Commissioner of Highways, Augusta, Me. W. L. Whitten, H. T. Wood and Wm. Mitchell are Selectmen of New Portland.

Buzzard's Bay, Mass.—We are officially advised that bids will soon be asked by the New York, New Haven & Hartford R. R. Co., New Haven, Conn., for a 40-ft. single-leaf, double track railroad bridge over Cohasset Narrows, near Buzzard's Bay. W. H. Moore is Engr. of Bridges.

Weymouth, Mass.—Bids are being received by the Trustees of Weymouth Fore River Bridge for furnishing and depositing 265 cu. yds. of concrete around the center pivot pier of Weymouth Fore River bridge. Whitman & Howard, 220 Devonshire St., Boston, are the Engrs.

✚Irving, N. Y.—The contract for constructing the superstructure of a bridge over Cattaraugus Creek has been awarded to the OWEGO BRIDGE C., Owego, N. Y., at $11,128. The contract for the substructure was awarded to the LAKE SHORE CONTRACTING & SUPPLY CO., Dunkirk, N. Y., at $3,425. Geo. C. Diehl, Buffalo, is County Engr.

Newark, N. J.—Bids will be received by the Board of Chosen Freeholders of Essex County until 3 p. m., Sept. 11, for the following work: Constructing concrete and masonry extension of bridge on Heller Parkway, in Newark and Belleville; concrete arch bridge on Melrose Ave., Montclair; steel and masonry extension of bridge on John St., Nutley; arch bridge on Baltusrol Way, Millburn; steel and concrete bridge at Poor House, on Oak Tree Lane, Bloomfield; laying 680 ft. of 20-in. vitrified pipe on Springfield Ave., Irvington; building concrete culvert, Central Pl., West Orange; building steel and concrete superstructure on Swamp road, West Caldwell.

Clearfield, Pa.—Bids will be received by the County Commissioners until Sept. 23 for a 2-span concrete arch highway bridge at Coalport, [illegible] span to be 53 ft. long. E. W. H[illegible] Engr., and L. C. Norris, Commiss[illegible] Clk., Clearfield.

Honesdale, Pa.—Bids will be received by the County Commissioners until 5 p. m., Sept. 14, for constructing a concrete arch bridge over the Lackawanna River near Forest City.

✚Bethlehem, Pa.—The Board of Directors of the Minsi Trail [illegible] Co. has awarded the contract for erection of a steel bridge between Bethlehem and Northampton Heights to the VANDERSTRUCKEN-E[illegible] CONSTRUCTION CO., Bethlehem, [illegible] 578. The bridge will be 1,0[illegible] long and 80 ft. high.

Carlisle, Pa.—Bids will be received until Sept. 11 for the construction of a double-span concrete bridge, [illegible] span 53 ft.; and until Sept. 12 for [illegible] double span reinforced concrete bridge, each span 52 ft. C. A. Bingham is [illegible] Engr.

✚Douglassville, Pa.—Press reports state that the Pennsylvania R. R. Co. has awarded a contract to the EYRE-SHOEMAKER CO., Philadelphia, at approximately $90,000 for erection of an 11-span concrete arch bridge over the Schuylkill River.

Fayette City, Pa.—Bids will be received by K. Ewing Hough, Boro. Clk., until Sept. 15, for constructing a concrete bridge across Nauvoo Run.

New Cumberland, Pa.—Bids will be received by the Commissioners of Cumberland County, until 2 p. m., Sept. 11 for constructing a 2-span reinforced-concrete bridge over the Yellow Breeches Creek near New Cumberland. John E. Hertzler is Chn. Comrs.

Richmond, Va.—Bids will be received by P. St. J. Wilson, State Highway Comr., until 10 a. m., Sept. 16, for constructing a 59-ft. and a 66-ft. reinforced-concrete bridge over the Chickahominy River, about five miles from Richmond. Plans and specifications are on file with the Childrey-Sunday Co., Richmond.

Fenwick, W. Va.—Bids will be received by the Commissioners of Nicholas County, at Summersville, W. Va., until noon, Sept. 11, for constructing a steel bridge, 135 ft. long and 14 ft. wide, with stone or concrete substructure, at Fenwick. Plans and specifications are on file with P. N. Wiseman, Clk. of County Court.

Philippi, W. Va.—Bids will be received by the Commissioners of Barbour County until Sept. 11 for constructing a bridge in Union District.

Hendersonville, N. C.—Bids will be received by the Commissioners of Henderson County, until Oct. 2, for constructing two steel bridges over French Broad River. S. M. King is interested.

Vicksburg, Miss.—The Board of Supervisors and the City Council have agreed that the city and county will jointly construct a reinforced-concrete bridge over Glass Bayou, a short distance north of the city at a cost of $13,000.

***Bermuda, La.**—Bids will be received by P. E. Prudhomme, Pres. Police Jury, Natchitoches, until noon, Oct. 4, for constructing a steel highway bridge over the Cave River at Bermuda.

New Orleans, La.—The city is considering the construction of a bridge across Lake Pontchartrain, to cost approximately $3,570,000. W. J. Hardee is City Engr.

Barberton, Ohio.—Bids will be received by the County Commissioners, Akron, until Sept. 7, for constructing a bridge over Wol Creek on Wooster Road, at Barberton. Estimated cost, $6,500.

Cincinnati, Ohio.—Bids will be received by the Commissioners of Hamilton County until noon, Sept. 22, for constructing a concrete bridge on the Furhman Road in Sycamore Township. Stanley Struble is Pres., and Fred Dreihs, Clk.

✚Hamilton, Ohio.—A contract has been awarded to the OREGONIA BRIDGE CO., at $9,600, for constructing a bridge over Tallawanda Creek in Oxford Township.

Warren, Ohio.—Bids will be received by the County Commissioners until Sept. 11, for constructing a bridge at Park Ave. Fred T. Stone is County Audr.

Frankfort, Ind.—Bids will be received by C. F. Cromwell, Audr. Clinton County, until 2 p. m., Sept. 9, for repairing two bridges.

Rockville, Ind.—Bids will be received by the County Commissioners until Sept. 16, for constructing a 20-ft. reinforced-concrete bridge at Brown Ford. J. E. Elder is County Audr.

✚*Grand Rapids, Mich.—The contract for constructing the Leonard St. bridge has been awarded to the HACKEDORN CONSTRUCTION CO., Indianapolis, Ind., at $77,777. Noted Aug. 31.

✚Chicago, Ill.—Press reports state that contracts for constructing the West Washington St. bridge have been awarded as follows: superstructure, to the STROBEL STEEL CONSTRUCTION CO., Jackson Bldg., at $127,[illegible]; substructure to the FITZ SIMONS & CONNELL CO., 131 La Salle St., at $110,000. Noted Aug. 24.

Princeton, Ill.—Bids will be received by Clarence A. Johnson, Town Clk., until 2 p. m., Sept. 9, for constructing the Main bridge, a 20-ft. reinforced-concrete span, and the Kitterman bridge, a culvert, requiring 3,165 lbs. of steel and 35 cu. yds. of concrete.

Mendon, Ill.—Bids will be received until 10 a. m., Sept. 8, for repairing a 128-ft. steel bridge, and building two 60-ft. reinforced-concrete approach trestles between Lima and Mendon Townships. A. D. Nutt is Town Clk.

Des Moines, Iowa.—John Budd, City Engr., has been instructed by the City Council to prepare plans for a bridge over the Des Moines River at North St. Bonds for $250,000 will probably be voted.

✚Waterloo, Iowa.—The contract for constructing a bridge between San Souci and Electric Parks has been awarded to the MILLER HAY CONSTRUCTION CO., at $8,880. The only other bid was submitted by the Black Hawk Construction Co., at $9,600.

Emporia, Kan.—Bids will be received by the County Clerk until noon, Sept. 16, for constructing the Evan Jones and the Capork bridges, 22-ft. and 18-ft. reinforced-concrete spans.

✚Success, Ark.—The contract for constructing a 150-ft. steel bridge on concrete piers over the Little Rock River at Success, was awarded on Aug. 23, to the VINCENNES BRIDGE CO., Vincennes, Ind. Noted Aug. 10.

Port Arthur, Tex.—Bids will soon be asked by the Port Arthur Pleasure Pier Co., John W. Tryon, Pres., for constructing a 104-ft. single-leaf highway bridge, according to plans prepared by the Strauss Bascule Bridge Co., Fort Dearborn Bldg., Chicago.

Denver, Colo.—Plans have been completed for the bridge to be built over the Platte at West Alameda. The structure is estimated at $31,000.

Portersville, Cal.—Bids will be received by the Board of Supervisors until 11 a. m., Sept. 8, for constructing a steel wagon bridge across Tale River. M. Coburn is Clk.

San Jose, Cal.—The County Surveyor of Santa Clara County has plans under way for the construction of a concrete bridge to cross Campbell Creek.

Oroville, Cal.—Bids will be received by the Clerk of the Board of Supervisors until 2 p. m., Sept. 8, for the construction of a bridge over Lindo Channel in Guynn Ave. and a bridge over Lindo Channel at Grape Way.

Pasadena, Cal.—Bids will be received by Norman Dyer, City Clk., until 11 a. m., Sept. 12, for the construction of a reinforced-concrete viaduct along Columbia St. over the tracks and right-of-way of the Atchison, Topeka & Santa Fe R. R. and the San Pedro, Los Angeles & Salt Lake R. R. Plans are on file at the office of the City Engineer.

Pasadena, Cal.—Press reports state that the City Council has awarded a contract to Waddell & Harrington, Kansas City, Mo., for designing the bridge to cross the Arroyo Seco at Colorado St. The bridge is to cost $200,000.

Rockfield, Ont.—We are officially advised that bids will be asked in about six weeks for constructing the superstructure of a 156-ft. single-leaf highway bridge over Lachine Canal. W. A. Bowden is Ch. Engr., Dept. Rys. and Canals, Ottawa, and the Strauss Bascule Bridge Co., Fort Dearborn Bldg., Chicago, are Design Engrs.

BUILDINGS.

(**Denotes that this work is advertised in Engineering News.*)

Bangor, Me.—A theatre to be called the Bijou is about to be built on Exchange St., for the B. F. Keith syndicate

A $60,000 garage, 140 × 120 ft., two stories, is about to be constructed for the Bangor Motor Co.

A 5-story office building is to be erected on State St. for the Pearl & Dennet Company, 19 Columbia St. To be of brick and stone, 54 × 25 ft., to cost $35,000. Bids now being received. Jardine, Kent & Hill, 3 West 29th St., New York City, are the Archs.

✚Adams, Mass.—The contract for the parochial school of St. Stanislau's Church has been awarded to P. J. MAHONEY, of Westfield. To be of brick, three stories, 60 × 100 ft. John W. Donohue, Springfield, is the Arch.

Boston, Mass.—Plans are being drawn by Harrison H. Atwood, 61 Alban St., Dorchester, Mass., for the court house and police station to be erected at Paris and Meridian Sts., East Boston, for the City of Boston. The building will be of brick and stone, two stories high, 105 × 140 ft., and will contain 30 reinforced-concrete cells. The cost will be about $125,000.

A set of buildings consisting of three single and four double houses, to cost $51,000, will be built at once on Perkins and Moraine Sts., by Samuel J. Wilde, of 72 Perkins St. Estimates are desired on terra-cotta construction.

Edward T. P. Graham has prepared plans for the new City Hall Annex, which are now in the hands of Mayor Fitzgerald and Superintendent of Public Buildings M. J. Fish for approval. The annex as planned will be ten stories above and two stories underground, either stone or marble face, metal sash and trim throughout.

✚The GEORGE A. FULLER CO., 131 State St., Boston, has been awarded the general contract for the Mercantile Building, to be erected at 113 Devonshire St., for the Lawrence Minot Estate, 18 Tremont St. The building will be of brick and steel, fireproof construction, ten stories high. The Parker, Thomas & Rice Co., 131 State St., are the Archs. and F. S. Holmes, 2 Rector St., New York City, is Consult. Engr.

✚The contract for the erection of a six-apartment house on Bennett St., Brighton, for Col. Thomas F. Doherty, 61 Bernard St., Dorchester, has been awarded to ALLAN M. BROWN, 2094 Dorchester Ave. J. L. Beckwith, 1 Faulkner St., Dorchester, is the Arch.

Greenfield, Mass.—Architect C. A. Tinker, of Westfield, Mass, is preparing plans for a new church edifice for the First Baptist Society, to be erected at Federal and Leonard Sts. The building will be 100 × 64 ft., of Old Norman architecture, constructed of red sandstone. Louis A. Cook, Fred C. Brown, J. A. Clark, Charles A Jones and Rev. L. J. Brace are the building committee.

✚Lynn, Mass.—The contract for the theatre for B. F. Keith, mainly consisting of remodeling, has ben awarded to BABCOCK & CO., 49 Beverly St., Boston.

Monson, Mass.—Bids are now being asked for the addition to the State Hospital for Epileptics. Dr. Everett Flood is Supt. Randall, Taylor & Co., 93 Federal St., Boston, are the Archs.

Springfield, Mass.—Bids are being received for a block to be built for Napoleon Bengle on Main St. To be three stories, of brick construction. W. B. Reid is the Arch.

Worcester, Mass.—Bids are being received for a store and tenement block for Kolligian Bros., 128 Belmont St. To be 56 × 50 ft., four stories, brick and wood. Hachactoor S. Demoorjian is the Arch.

Worcester, Mass.—A store and apartment building is to be erected for W. H. Barriere, 10 Bartlett St., to be 50 × 37 ft., four stories. Edwin T. Chapin, State Mutual Bldg., is the Arch.

Woonsocket, R. I.—Bids will soon be received for the armory to be built by the State Commission. To be of granite, drill tower, 122 × 82 ft., main part, 64 × 58 ft.; to cost $75,000. William R. Walker & Son, 17 Custom House St., are the Archs.

Bridgeport, Conn.—Skinner & Walker have completed plans for an office building for the practice of dentistry, to be erected by Dr. A. C. Fones. This building will probably be the first of its kind in this country. It will be of imposing design, 38 × 63 ft., two stories high, of tapestry brick and white marble trim. The first floor will contain a large hall, stenographer's office and reception rooms, with ceilings of panelled oak and floors of red quarry tiles, and also a porte cochere for automobiles and carriages to the left of the hall. The floor will be of interlocking rubber tile. Every modern equipment will be installed, including a compressed air system, inter communicating telephone system, electric lights and hot water heat.

New Haven, Conn.—Allen & Williams, 82 Church St., this city, have completed plans for the workshops to be erected at the New Haven County Jail for which an appropriation of $45,000 was recently made. The building will be of brick, two stories high, 75 × 150 ft. The matter is in charge of the County Commissioners.

Buffalo, N. Y.—W. H. Zawadski, 798 Fillmore Ave., is preparing plans for a 5-story and basement wholesale grocery and warehouse building for S. Lipowitz at Broadway and the New York Central R. R. belt line. Structural steel and brick with concrete floors.

✚Jamestown, N. Y.—The Jamestown Construction Co. has received contract for erection of a 3-story and basement office building on Washington St., 30 × 100 ft., for the Post Publishing Co., from plans of Freeberg & Fidler. Cost, $38,000.

Albany, N. Y.—The bids received by the Trustees of Public Buildings on Aug. 29, for the restoration of the burned portions of the State Capitol, were: For entire work: Callanan & Prescott, Albany, N. Y., $123,875. For the slate and tile roofing work, sheet metal work, skylights and terra cotta: L. F. Bannon Co., Kingston, N. Y., $32,773; Sykes Steel Roofing Co., Chicago, Ill., $40,290; Lexington Sheet Metal Works, New York, $32,000. F. B. Ware is State Arch.

***Comstock, N. Y.**—Bids were received as follows by Joseph F. Scott, Supt. of State Prisons, Albany, N. Y., on Aug. 31, for the construction, complete, of the Great Meadow Prison, including (1) construction, heating, plumbing and electric work for the cage, connecting corridors, laundry and bath-house, mess hall and kitchen building, power-house, punishment prison and conduits and power plants; (2) cu. yd. price for finished grading; (3) deduction for omitting construction, heating, plumbing and electrical work for bath-house and punishment buildings, including corridor and conduit connections to same: R. T. Ford Co., Rochester, N. Y., (1) $443,000, (2) 75 cts., (3) $120,000; A. Pasquini, New York, (1) $448,000, (2) 85 cts., (3) $102,400; Concord Construction Co., New York, (1) $457,897, (2) 70 cts., (3) $111,807; Hudson Valley Construction Co., Troy, (1) $487,300, (2) 80 cts., (3) $125,000; Morris Kantrowitz, Albany, (1) $496,000, (2) 75 cts., (3) $110,000; Feeney & Sheehan, Albany, (1) $498,000, (2) 90 cts., (3) $121,000; Luke A. Burke & Sons, New York, (1) $499,750, (2) 50 cts., (3) $113,000. The buildings when completed will accommodate 500 convicts. F. B. Ware is State Arch.

Oswego, N. Y.—The Department of Education has ordered plans prepared for an 8-room school building, the cost of which is estimated at $45,000.

New York, N. Y.—Plans are ready for the 12-story apartment house which the 521 Park Avenue Co., 2 Rector St., is to erect at 521 Park Ave., at a cost of $350,000. William A. Boring, 32 Broadway, is the Arch. Ira Barrows, 17 Maiden Lane, Pres.

Plans have been prepared for the 6-story flat house which the 48th St. Realty Co., 525 West 43d St., is to erect in the south side of 48th St., 150 ft. west of 8th Ave., at a cost of $50,000. Harold L. Young, 67 West 125th St., is Arch.

Excavating has been started at 68 and 70 East 86th St. for the 12-story apartment house to be erected for the Putnam Construction Co., Samuel A. Herzog, Pres., 43 Cedar St. Plans by Schwartz & Gross, 347 Fifth Ave.

The Schuck Realty & Construction Co., 19 St. Nicholas pl., will soon start the erection of two 5-story flat buildings at 127th St., east of Convent Ave., to cost $80,000. J. C. Cocker, 2017 Fifth Ave., has completed plans.

Gronenberg & Leuchtag, 7 West 22d St., have completed plans for four 5-story tenements for the Hawthorne Construction Co., 530 West 207th St., in the north side of Hawthorne St., 100 ft. east of Vermilye Ave. Cost, about $90,000.

Emil J. Ericson, 385 Jay St., Arch., has completed plans, and the St. Julian Construction Co., 142 Columbia St., is taking bids on the general contract for three 4-sty tenements to be erected in the north side of Bergen St. Cost, $101,000.

The 128 East 60th Street Co. will erect a 9-story apartment house, 41 x 100 ft., at 128 East 60th St. Plans by J. M. Darrach, 10 East 33d St., is the Arch.

The Axelrod Realty Co., 314 West 100th St., will erect a 6-story apartment home on the southeast corner of Riverside Drive and 151st St. The cost is $175,000. Plans have been completed by George Fred Pelham, 507 Fifth Ave.

Syracuse, N. Y.—Within two weeks Albert L. Brockway, Arch., will receive bids for erecting a building for the Greenway Brewery on West Water St. The cost is expected to be about $175,000. It will be of brick, with a skeleton steel frame and concrete floors. It will have 300 ft. frontage on Water St. As one side of it will be along the Erie Canal, much of the work will be done this winter, when the water is out of the canal.

J. A. Seitz has taken out a permit for the erection of a fireproof block at South Warren and East Jefferson Sts., to cost $49,500.

Newark, N. J.—C. H. Stewart & Co. are receiving bids for erection of a 6-story and basement business block, 56 × 110 ft., on Union St., from plans of Leon Stern, Rochester, N. Y.

Wilkes-Barre, Pa.—Plans are being prepared for a 5-story building to be occupied by the Halzel Furniture Co.

Baltimore, Md.—The Board of Awards opened bids for construction of a school at Westwood and Rosedale Aves.; plans by Thomas C. Kennedy, 213 North Calvert St. Low bidders are Patrick J. Cushen, 213 North Courtland St., at $44,576, and Randolph B. Mason, 210 East Lexington St., at $45,887.

Baltimore, Md.—Bids have been received by the Board of Awards as follows: The bids for the Forest Park school were: Maryland Construction Co., $60,000; M. C. Davis, $58,719; Charles L. Stockhausen, $55,947; Edward Water & Co., $64,200; R. B. Mason, $63,123, and John S. Busick, $61,000. For the Westwood Ave. school were these estimates: Maryland Construction Co., $52,000; R. B. Mason, $45,887; M. C. Davis, $49,000; Fidelity Construction Co., $45,950; Charles Stockhausen, $47,000 and $44,576.

✚THOMAS B. STANFIELD & CO. have been awarded the contract to build a warehouse and storage shed for the Page Engineering Co. on Claggett St., South Baltimore. According to the plans prepared by the company's architect, it will be one and two stories high, of steel construction, with reinforced-concrete foundation and slag roof. It is to be entirely fireproof.

Swift & Co., packers and wholesale meat dealers, will erect a 3-story warehouse at Eutaw and Camden Sts.

A large addition is to be built to public school 64, at Forest Park. Plans were prepared by Otto G. Simonson, Arch. Cost, $60,000.

Washington, D. C.—Union Savings Bank awarded the contract to F. T. NESBIT & CO., New York, for an additional story to the 8-story building now in course of construction.

✚Milburn, Heister & Co., Archs., Home Life Bldg., have been selected to prepare plans and specifications for new hotel to be erected at 18th St., Penn Ave. and I St. Proposed cost, $300,000. Contract has been awarded to GEORGE A. FULLER CO.

Lynchburg, Va.—The Southern Ry. Co. has awarded the contract for new passenger station, to be built at Lynchburg, to J. P. PETTYJOHN & CO., Lynchburg, after plans prepared by Milburn, Heister & Co., Home Life Bldg., Washington, D. C.

Richmond, Va.—Henry S. Wallerstein will erect at Eighth and Grace Sts. a 7-story hotel, costing $150,000, it is reported.

✚Fairmont, W. Va.—The contract has been awarded to JOHN M. KISNER, Fairmont, for erecting an addition to the car barn of the Fairmont & Clarksburg Traction Co. The cost is about $40,000.

Kingwood, W. Va.—Milburn, Heister & Co., Home Life Bldg., Washington, D. C., are preparing plans and specifications for new business block, stores, etc., for William G. Brown, Pres. Bank of Kingwood. Contract will be awarded as soon as plans are completed.

Chapel Hill, N. C.—The Trustees of the University of North Carolina have selected plans submitted by Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., in competition for the new Peabody Educational building to be built at the University from the Peabody fund. The contract will be awarded as soon as plans and specifications are completed, which will be in about 60 days.

Birmingham, Ala.—William Hood will erect a hotel at 22d St. and Fourth Ave. The contract will soon be awarded. Plans have been drawn by Miller & Martin, Archs., for the building. The new hotel will represent an expenditure of $150,000, and the lot is 75 × 140 ft. It will contain 110 rooms and will probably be six months in building. The hotel will contain all modern conveniences with cafe and bath rooms.

Eufaula, Ala.—Bids were received as follows on Aug. 30 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Eufaula, Ala., (a) limestone, (b) sandstone: Algernon Blair, Montgomery, Ala., (a) $47,619, (b) $49,200; Newport Engineering & Contracting Co., Newport News, Va., (a) $49,992, (b) $50,992; King Lumber Co., Charlottesville, Va., (a) $44,300, (b) $46,300; Barnes Bros., Logansport, Ind., (a) $50,000, (b) $50,500; George Becking, Chattanooga, Tenn., (a) $41,511.

Baton Rouge, La.—Plans are being prepared by Favrot & Livaudais, New Orleans, for the erection of a 6-story steel fireproof Roumain office building at 343 Third St. The cost is $150,000.

Louisville, Ky.—Plans will be prepared by Brinton B. Davis, Arch., Atherton Bldg., for the erection of a church building at Fourth and York Sts., for the First Presbyterian Congregation. The cost is $60,000.

E. G. Duckwell Co. will erect a 1-story brick warehouse to cost $75,000. Plans have been prepared by D. X. Murchy & Bro., Archs.

Winchester, Ky.—Bids will be received until Oct. 9 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring and lighting fixtures) of the U. S. post-office at Winchester, Ky. The building is one story in height with a ground area of approximately 5,000 sq. ft., faced with marble, and except the roof, of fireproof construction. Drawings and specification may be obtained from the Custodian at site at Winchester, Ky., or at the office of the Supervising Architect.

Akron, Ohio.—The National Vaudeville Association, of Springfield, Ohio, will erect a theater in Akron at a cost of about $80,000.

Alliance, Ohio.—Bids will be received until Sept. 11 by the Board of Education for the erection of a school building.

Cincinnati, Ohio.—Plans have been revised for the proposed school in the Fifteenth District to conform with the new state building code, and the building accordingly, instead of being four stories high, as originally planned, will be limited to three. The building will be erected on the west side of Main St., near Clifton Ave., and will cost $260,000.

Norwood, Ohio.—Separate and lump bids will be received by the Clerk of the Board of Education until Sept. 18 for a high school building in Norwood, Ohio. Walter Franz is Engr.

Toledo, Ohio.—The Toledo Club, C. P. Schmettan, 1103 Ohio Bldg., Toledo, Ohio, Pres., has commissioned George S. Mill, Arch., Ohio Bldg., to prepare plans for a 6-story club-house. Cost, $250,000.

Columbus, Ohio.—Bids will be received Sept. 19 by the Board of Education for the excavation and foundation for the Crestview school building. Plans and specifications by David Riebel, Arch.

✚Canton, Ohio.—The Board of Education of Canton, Ohio, has awarded the contract for the erection of a high school building to E. E. BOPE, of Columbus, at $43,604. FITZPATRICK & HOEPFNER were awarded the contract for the heating and ventilating system.

Arcadia, Ind.—Bids have been received by Jacob G. Kepner, Township Trustee, for the general contract of a high school. Plans were prepared by Herbert Foltz, 1108 Indiana Pythian Bldg., Indianapolis.

Brazil, Ind.—The County Commissioners are considering the construction of a court-house. Probable cost, $200,000.

✚Detroit, Mich.—The contract for placing the concrete piles in the foundations of the Kiefer Bldg., Detroit, Mich., Kiefer Land Co., owners, has been awarded to the RAYMOND CONCRETE PILE CO., of New York and Chicago.

Malcomson & Higginbotham, Archs., 404 Moffat Bldg., and Ammerman, McColl & Anderson, Engrs., 1330 Penobscot Bldg., Detroit, will receive bids until noon Sept. 9, for the 2-story basement school building 200 × 91 ft., to be located on Phillips Ave. Maurice R Man., Secy. Bd. of Educ., 50 Broadway. Cost, about $80,000.

Spier, Rohn & Gehrke, 1325 Chamber of Commerce Bldg., will take bids about Oct. 1 for a 14-story and basement hotel, 100 × 45 ft., for the Wolverine Hotel Co. Cost, $500,000.

Goosens & Feldman, 1220 Chamber of Commerce Bldg., Detroit, are preparing plans for a 2-story and basement residence, 65 × 61 ft., to be located on Boston Boulevard. Cost, $50,000.

Hart & Rill, 54 Buhl Block, Detroit, are preparing plans for a 2-story and basement school building, 88 × 112 ft., for the City of Hamtramack. A. P. Schroeder is Secy. Bd. of Educ. of Hamtramack. Cost, $55,000.

Reed & Stene, 7 East 42d St., New York City, will probably award contracts some time in Nov. for the $3,000,000 depot for the Michigan Central R. R. Co. H. B. Ledyard, Pres. of Bd. of Dir., foot of Third St., Detroit.

Robinson & Campau, 449 Houseman Bldg., Grand Rapids, are preparing plans for a 3-story and basement rescue home, 100 × 50 ft., for the Grand Rapids Salvation Army.

✚George D. Mason, 80 Griswold St., Detroit, has awarded the following contracts for the 3-story and basement parish house for the Woodward Ave. Baptist Congregation: Structural ironwork to WHITEHEAD & KALES, Beecher Ave. and M. C. R. R.; general contract to VINTON & CO., 120 Woodbridge St. Cost, $60,000.

C. E. Trombley, 210 Chene St., Detroit, has had plans prepared for a 5-story and basement store building, 40 × 100 ft. Mr. Trombley will purchase all materials and sublet all contracts.

John Scott & Co., 1603 Ford Bldg., will receive bids until Sept. 12 for the 5-story office building for the Public Lighting Commission, F. T. Bowler, Secy., 40 East Atwater St. Building to be 78 × 160 ft. Cost, $45,000.

✚Malcomson & Higginbotham, Archs., 404 Moffat Bldg., have awarded the general contract for the new 2-story and basement Hamilton Ave. high school, 200 × 91 ft., to E. A. CONNELL, 701 Third Ave., Detroit, for $76,800.

✚Ford City, Mich.—J. G. Kostler & Co., 523 Chamber of Commerce Bldg., Detroit, have awarded the general contract for the 2-story and basement school building, 67 × 89 ft., for the village of Ford City, to SCHOEBEL & STODDARD, Wyandotte, Mich. Cost, $40,000.

Grand Rapids, Mich.—William M. Clarke, 440 Houseman Bldg., will soon take figures on a 6-story and basement office building, 80 × 80 ft., for George Metz. Cost, $70,000.

✚Kalamazoo, Mich.—The contract for the erection of Kalamazoo's Y. M. C. A. building was let to THOMAS FOY, Kalamazoo. The structure will cost $100,000 and will be completed within a year.

✚Kalamazoo, Mich.—Spier, Rohn & Gehrke, 1325 Chamber of Commerce Bldg., Detroit, have awarded the general contract for the 10-story and basement store and office building, 45 × 90 ft., for George H. Hanselman, Kalamazoo, to HENRY L. VANDERHORST, Kalamazoo. Cost, $150,000.

Ludington, Mich.—Cowles & Mutcheler, 5 Chase Bldg., Saginaw, Mich., will soon be ready for bids on a 2-story and basement parochial school and boiler house for the St. Simeon School. The Rev. D. E. Malone, pastor, Ludington, Mich. Cost, $45,000.

Muskegon, Mich.—B. Parks & Son, 541 Michigan Trust Bldg., Grand Rapids, will soon take bids on a 3-story and basement office building, 75 × 68 ft., for the Shaw-Walker Co. Cost, $40,000.

Chicago, Ill.—Plans have been completed by Ernest A. Mayo, Arch., for the clubhouse to be built by the Evanston Women's Club. The cost is $50,000. The plans provide for a 2½-story building, colonial style, red brick exterior. The first floor will be utilized for the reading and committee rooms, offices, etc., and the entire second floor will be occupied by an auditorium. Bowling alleys and the kitchen will be located in the basement. The site will eb at Chicago Ave. and Church Sts. on a lot 110 × 50 ft., which was bought for a permanent location.

Plans have been completed for the 8-story and basement hotel building which Ernest W. Brown will build at the corner of Fourth and Chestnut Sts. H. L. Stevens & Co., of Chicago, are the Archs.

Plans have been completed for the 5-story bank, store and office building which H. E. Teachout will build at the corner of Fifth and Locust Sts. H. L. Stevens & Co., of Chicago, are the Archs.

Plans have been completed for the residence that will be built by Dr. Philpott, to be fireproof. H. L. Stevens & Co., of Chicago, are the Archs.

Minneapolis, Minn.—Bids will be received by the Commissioners of Hennepin County until 11 a. m., Sept. 25, for rebuilding Bridge No. 343, Contract No. 30, according to plans on file at the office of the county surveyor. A. P. Erickson is County Audr.

St. Paul, Minn—The State Board of Control Aug. 24 received the following bids on the general construction of a girls' dormitory at the State Experimental Station at Morris: Cameron & Co., St. Paul, $43,000; N. P. Fransen & Co., St. Paul, $43,266; C. Hagstrom & Co., Minneapolis, $44,800, and J. W. Butler & Bro., St. Paul, Minn., $45,703. C. H. Johnston is State Arch.

✚St. Paul, Minn.—The contract for general construction of a 3-story pressed brick and cut stone fireproof Home for the Aged for the H. M. Rutledge Home at Chippewa Falls, Wis., has been awarded to KINGSLEY & PAYANT, Faribault, Minn., at $137,000.

Selby, N. Dak.—Bids will be received until Sept. 20 by H. A. Taylor, County Audr., for erecting a court-house and jail. The Fall River Co., Hot Springs, S. Dak., prepared plans.

Rolla, Mo.—Bids will be received until Sept. 11 by Executive Commission of the Missouri School of Mines and Metallurgy for constructing a library building. Cost, $65,000. Plans by George W. Hellmuth, St. Louis.

✚St. Louis, Mo.—The contract has been awarded to the HILL & O'MEARA CONSTRUCTION CO., 1413 Syndicate Trust Bldg., for the erection of a 5-story reinforced-concrete fireproof building at 412 North Seventh St. The Dominion Investment Co. Cost, $50,000. Plans by H. F. Roach, 915 Oliver St.

Crawfordsville, Ark.—C. L. Campbell, Pres. School Bd., will receive bids until Sept. 15 for constructing a brick school. Plans by Clyde A. Ferrell, 314 National Bank Bldg., Litte Rock.

✚El Paso, Tex.—The WILLIAM MILLER & SONS CO., of Pittsburgh, has been awarded the general contract for an hotel building, to be erected at El Paso, Tex. The estimated cost of this building is $500,000.

Pendleton, Ore.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 6, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and lighting fixtures), of the U. S. post-office at Pendleton, Ore. Drawings and specification may be obtained from the Custodian of site at Pendleton, Ore., or at the office of the Superv. Arch.

Los Angeles, Cal.—Kremple & Erkes, Henne Bldg., have been retained by the city to prepare plans for a 3-story class A steel and concrete fire engine house to be erected on Figueroa St. at a cost of $60,000.

✚The Roman Catholic Archbishop of San Francisco has awarded contract through the office of Shea & Lofquist, 550 Montgomery St., to McLAUGHLIN & WALSH, Lick Bldg., for the construction of a dormitory and refectory building in Marin County, at $92,955.

The Standard Woodenware Co., 230 South Los Angeles St., awarded contract through the office of S. T. Norton, Consolidated Realty Bldg., to J. KELCH, 1320 West 24th St. and F. W. SHARP, for the construction of a 3-story concrete warehouse, 140 × 75 ft., on Stephenson Ave., at $43,455.

✚Earl C. Anthony, 666 Berendo St., has awarded contract through the office of Parkinson & Bergstrom, Security Bldg., to F. O. ENGSTROM CO., Fifth and Seaton Sts., for the construction of a 4-story concrete commercial building, 157 × 70 ft., on Tenth and Hope Sts., at $83,415.

Riverside, Cal.—Bids will be received until Sept. 19 by the Commissioner of Indian Affairs, Washington, D. C., for furnishing material and erecting a hospital building and additions to two dormitories at the Riverside School. F. M. Conser, Supt., Riverside, can supply further information.

San Diego, Cal.—The Santa Fe R. R. Co. will begin soon on the construction of two concrete freight sheds, each 60 × 300 ft., to cost $200,000. A. F. Hurst, Local Agent.

San Francisco, Cal.—The following bids were opened by the Board of Public Works for the general construction on the Girls high school: Charles Wright, (a) $257,000 and $256,900, (b) $224,543 and $223,543; Lewis A. Hicks Co., (a) $275,000 and $275,000, (b) $245,000 and $245,000; McLean & Peterson, (a) $250,913 and $250,413, (b) $218,444 and $217,900; Caldwell & Co., (a) $254,000 and $253,000, (b) $225,400 and $224,500; Lange & Barstorm, (a) $254,817 and $254,117, (b) $221,418 and $220,718; Hemmings & Burki, (a) $239,444 and $238,444, (b) $206,444 and $205,444; Klent & Muller, (a) $260,913 and $260,000, (b) $220,000 and $219,000. The Ralston Iron Works, 20th and Indiana Sts., submitted the lowest bid on the structural steel work at $61,840 for (a) and $49,786 for (b).

San Francisco, Cal.—Wright, Rushforth & Cahill, 579 California St., are preparing plans for a 4-story brick and steel building to be erected by J. C. Parsons on Clay and Battery Sts. Estimated cost, $40,000.

Plans are being prepared by Cunningham & Politeo, Archs., Chronicle Bldg., for a 9-story class A concrete and brick hotel to be erected by C. A. Hooper, on Powell St., at a cost of $200,000.

Plans are being prepared by Albert Lausburgh, Arch, Grunst Bldg., for the erection of a hotel building. The cost is about $200,000.

Sacramento, Cal.—Bids will be received until Sept. 15 for the erection of a training school building at the San Jose State Normal School. The approximate cost is $50,000. Plans by N. Ellery, State Engr., Sacramento.

Bids will be received until Sept. 15 for the erection of a convalescent building to be erected at Agnew's State Hospital for the Insane. The building will be 128 × 36 ft., of concrete construction, two stories and basement, and cost $40,000. Plans by N. E. Ellery, State Engr., Sacramento.

Yosemite, Cal.—Bids will be received by Maj. W. W. Forsyth, Acting Supt., Yosemite National Park, until Sept. 20 for erecting four dwellings within Yosemite National Park.

Chesley, Ont.—Bids will be received until Sept. 20 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for the construction of a public building. Plans, specifications and forms of contract can be seen and forms of tender obtained at office of Thomas A. Hastings, Clk. of Works, Postal Station F, Toronto.

Truro, N. S.—The time for receiving tenders for the construction of a stone passenger station has been further extended from Aug. 31 to Sept. 15. L. K. Jones is Secy. Rys. Dept., Ottawa.

Canora, Sask.—Bids will be received until Sept. 9 by William Sharp, Secy.-Treas., for the erection of a town hall. Plans, specifications, etc., can be seen at the office of Secy.-Treas., or at office of J. H. Bossons, Dauphin, Man., Arch.

Kamloops, B. C.—Bids will be received by the Minister of Public Works (J. E. Griffiths, Pub. Wks. Engr.), Victoria, until Sept. 20, for the erection and completion of an east wing addition to the Provincial Home. Plans, specifications and forms of tender may be seen at offices of Provincial Timber Inspector, Vancouver, B. C., the government agents at Kamloops, New Westminster and Revelstoke.

WATER SUPPLY—IRRIGATION.

(✚Denotes a contract awarded.)

Fort Levett (Portland post-office), **Me.**—Bids were received on Aug. 15 by Capt. G. O. Hubbard, Constr. Q. M., U. S. A., Portland, for pumping and storage plant, etc., at Fort Levett, as follows: (a) pump-house and two well shelters, (b) concrete reservoir and tank, (c) pumps and pumping machinery, (d) furnishing and installing pipes, (e) complete work: Simpson Bros. Corporation, Boston, Mass., (a) $3,160, (b) $9,243, (c) $5,000, (d) $2,604, (e) $19,503, alternate, $18,402; M. L. Bayard & Co., Philadelphia, Pa., (c) $5,000, (e) $20,000; John J. Fitzpatrick & Sons, Plattsburg, N. Y., (a) $2,939, (b) $11,655, (d) $2,092; R. L. Whipple & Co., Worcester, Mass., (b) $11,900; Frank H. Marshall, South Portland, (d) $2,498; John W. Danforth Co., Washington, D. C., (a) $2,850, (b) $9,485, (c) $5,214, (d) $1,800, (e) $18,000; A. L. Dow & Co., Portland, (d) $2,180; F. & C. B. Nash Co., Portland, (c) $5,333; Mahoney Construction Co., Portland, (a) $3,738, (b) $13,264, (c) $4,585, (d) $2,890, (e) $24,250; F. W. Cunningham &Sons, Portland, (a) $3,513, (b) $7,919, (d) $985; N. E. Redlon Co., Portland, (a) $5,000, (b) $6,251.

Portsmouth, N. H.—The city is considering securing an additional water supply. J. E. Parker is Supt. G. E. Corey is City Clk.

✚Worcester, Mass.—The contract has been awarded to EDWARD D. WARD for digging the trench and laying the pipe of the Metropolitan emergency water supply at about $34,605.

✚Athol, Mass.—The contract for hauling and laying about 9,000 ft. of 12-in. c.-i. pipe has been awarded by the Water Department to J. M. DINEEN & SON, 14 Holyoke St., Easthampton, Mass., at 66⅔ cts. per lin. ft. Bids were opened on Aug. 22. List of bidders noted on Aug. 31.

✚Boston, Mass.—The contract has been awarded by the Metropolitan Water and Sewerage Board to A. M. CUSACK, of Boston, for laying 2,840 lin. ft. of 20-in. force main, etc., at $4,508. Bids were opened on Aug. 21.

Boston, Mass.—The following bids were received on Sept. 1 by the Metropolitan Water and Sewerage Commission for a pumping engine of 3,000,000 gallons capacity, to pump against a head of 50 ft., and one of the same capacity against a head of 140 ft. Bids below are for the two pumps, the other figures being the guaranteed duty in million ft.-lbs., at full capacity: Laidlaw-Dun-Gordon Co., New York, for horizontal, cross-compound, crank-and-fly-wheel engines, $7,525; $8,825; 107; 115. Cockburn Co., New York, horizontal, 3-cyliner, compound, crank-and-fly-wheel, $7,886; $8,738; 100; 110. Allis-Chalmers Co., Milwaukee, Wis., horizontal cross-compound, crank-and-fly-wheel, $11,000; $12,500; 110; 116. The William Tod Co., Youngstown, Ohio., horizontal cross-compound, crank-and-fly-wheel, $11,000; $17,900; 100; 135. Nordberg Mfg. Co., Milwaukee, Wis., horizontal cross-compound, crank-and-fly-wheel, $16,000; $17,000; 110; 124. Snow Steam Pump Works, New York, horizontal, cross-compound, crank-and-fly-wheel, against 140 ft. head, $9,735; 110. William Tod Co., vertical, triple-expansion, against 140 ft. head, $17,900; 135. Dexter Brackett is Ch. Engr., Comn.

Boston, Mass.—Bids will b[illegible]ceived until Sept. 8 by the Board [illegible] Public Works, for relaying 4,000 ft [illegible] water pipe in River, Anderson, [illegible] other streets, by the Public Wo[illegible] Dept. Louis K. Rourke is Comr.

✚Boston, Mass.—The co[illegible] for building Section 3 of the St[illegible] Brook Conduit was awarded on A[illegible] 31 by the Public Works Depar[illegible]t to WILLIAM J. BARRY, Ro[illegible]y, to be constructed in tunnel, [illegible] $97,851. The following bi[illegible] were submitted for the open t[illegible] and tunnel work: William J. Barr[illegible]ench) $103,651: Patrick McGovern [illegible]ench), $99,525; Peter W. Hill, $11[illegible] and $110,682; Coleman Bros., $11[illegible]9 and $113,279; Wm. L. Dolan, $11[illegible]5 and $118,985; Chas. R. Grow Co[illegible]17,943 and $123,843; Antony Cefalo[illegible]120,631 and $120,631; Hugh Nawn C[illegible]acting Co., $137,697 and $146,153; [illegible] K. Rourke is Comr. Pub. Wks.

Pittsfield, Mass.—Bids for la[illegible]g water pipe, addressed to the Cl[illegible] of the Board of Public Works, wi[illegible] be received by the Board of Publ[illegible] Works until 2 p. m., Sept. 11. Pamp[illegible]s containing information for bidd[illegible] form of proposal, contract and spec[illegible]ations will be mailed to contractors [illegible]o apply to A. B. Farnham, Engr. [illegible] Pub. Wks., or may be obtained at [illegible] office or at the office of Hiram A. Miller, Consult. Engr., 8 Beacon St., Boston. The plans may be seen at eith[illegible] office. The principal item of work [illegible] laying about 2,800 ft. of 20-in. c.-i. pipe.

Medford, Mass.—Bids will be received by the Water Commissioners until Sept. 11 for furnishing 110 tons of c.-i. pipe. Alison M. Stickney is Chn.

✚Ithaca, N. Y.—Contracts were awarded by the Board of Public Works as follows on Aug. 16: For constructing a 600,000-gallon reservoir on East Hill to the CHICAGO BRIDGE & IRON WORKS, 105th and Throop Sts., Chicago, Ill., at $6,600; to the DOVER BOILER WORKS, of New York, for a 150,000-gallon tank on West Hill at $3,445.

Tonawanda, N. Y.—Bids will be received by Moss W. Simson, City Clk., until 8 p. m., Sept. 18, for the construction of a water main in Stark St.

Valatie, N. Y.—F. B. Ware, State Arch., Capitol, Albany, N. Y., is preparing plans for the installation of a water supply system in connection with the buildings for the State Farm for Women here.

New York, N. Y.—Bids will be received by the Board of Water Supply, 165 Broadway, New York, until 11 a. m., Sept. 26, for Contract 100, for the construction of the extension of Croton blow-off, in the Croton division of Southern Aqueduct Department, on the shore of Croton Lake, in the Town of Yorktown, Westchester County; Contract 113, for test pits and borings on the site of the proposed Silver Lake Reservoir, situated about half mile west of Tompkinsville, and about two miles by trolley from St. George Ferry, Staten Island, Boro. Richmond, New York; Contract 103, for the construction of part of the Queens conduit, a portion of the City pipe lines of Catskill Aqueduct, in the City Aqueduct Department and extending from near the junction of Willoughby Ave. and Broadway, in the Boro. of Brooklyn, in a generally easterly direction along Willoughby and Evergreen Aves., Troutman St., Flushing Ave., Grand St. and Fisk Ave., to Thompson Ave., Boro. Queens.

New York, N. Y.—Bids will be received until 2 p. m., Sept. 13, by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and erecting one horizontal return tubular boiler at the Forest Stream pumping station, Springfield, Long Island, and for furnishing and delivering metals and alloys (bar sheet), lead-lined pipe and fittings, corporation cocks and electric drill.

Bids will be received by Henry S Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Sept. 13, for furnishing, delivering and laying water-mains and appurtenances in Broadway, Exterior, West 34th, West 129th, West 130th, West 145th, West 149th, West 151st, West 155th and West 178th Sts., and in Twelfth Ave., Boro. Manhattan.

Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Sept. 13, for furnishing, delivering and installing a boiler plant and brick chimney at the pumping station to be erected at Whitestone, Boro. Queens.

Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity until 2 p. m., Oct. 4, for furnishing the materials and labor required for alterations, repairs and improvements at various pumping stations.

Otisville, N. Y.—The Mayor of New York City on Aug. 23 approved the ordinance providing for the issue of corporate stock for $50,000 for a gravity water system and reservoirs, at Otisville, under jurisdiction of the Department of Health of New York.

Avalon, N. J.—Bids will be received by the Borough Council until Sept. 11 for an artesian well. R. L. Goff, of Ocean City, N. J., is Engr.

✚York, Pa.—The York Water Co. has awarded the contract for building the impounding basin of the company to the STAMPER-RAGLAN CO., of Richmond, Va., at $200,000. There were twelve bidders.

Williamsburg, Va.—The city is considering the installation of a waterworks and sewer system.

Wheeling W. Va.—The City & Elm Grove R. R Co. has employed the firm of Chester Fleming, Consult. Engrs., of Pittsbur Pa., to make a complete examinatio and report of the water-works for asant Valley, a suburb of Wheeling, th reference to extensive improveme in the water-supply.

Rutherfo ton, N. C.—The city will receive bi until about Sept. 15 for the const tion of water-works of 120,000-gal s capacity and an electric-light nt of 150 HP. including cement res voir of 200,000 gallons capacity an rick electrically-operated pump-hous 15 × 15 ft. B. Parks Rucker, C lotte, N. C., is Engr. Bids for water orks equipment will be opened ab t Sept. 1.

Lawrenc ille, Ga.—The city has voted $50, 0 of bonds for the water-works an sewer system. The J. B. McCrary C is Engr., Empire Bldg., Atlanta, G

Fort Ba ancas, Fla.—The Quartermaster, U. S. A., Fort Barrancas, will receive bi until Sept. 22 for water-works ext nsions, including main extension, la ing new mains, providing hydrants, onnecting pumps, etc.

Dayton, Tenn.—W. G. Kirkpatrick, Consult. Engr., Jackson, Miss., has estimated the cost of constructing water-works here, at $24,564.

✚Gallatin, Tenn.—The City Council has awarded the contract for furnishing and erection of new machinery for the water-works and light plant to the CROCKER-WHEELER CO., of Ampere, N. J., at $8,105. Noted on Aug. 31.

Senecaville, Ohio.—H. L. Maddocks, Trust Bldg., Newark, Ohio, has been engaged to prepare plans for the construction of water-works and a sewer system. Estimated cost, about $40,000.

Urbana, Ohio.—Bids will be received until Sept. 18 by the Director of Public Safety for new pumping machinery for the municipal water-works. Amount available, $18,000.

Bremen, Ohio.—Bids were received on Aug. 15 by the City Clerk for the construction of water-works. Contracts have been awarded to ROSSER, McCROLY & HARPER, of Bellaire, Ohio, for the reservoir and pumping station at $2,741; pumping plant at $2,145, and pipe lines at $16,866.

Cincinnati, Ohio.—Bids will be received by the Director of Public Service until noon, Sept. 11, for grading grounds, etc., building of foundations, etc., dismantling, hauling and re-erection of tanks for the Western Hills service of the water distribution system of the city. Plans, specifications and blank proposals can be obtained at the office of the General Superintendent of Water-Works. John J. Wenner is Clk.

Walter Richards, Supt. of W-Wks., Cincinnati, has recommended the installation of a water filter in the reservoir at the water-works plant.

Fort Wayne, Ind.—Bids will be received until Sept. 12 by the Board of Trustees of the Indiana School for the Feeble-minded Youth for constructing a concrete reservoir. Ralph M. Snyder is Engr. and Arch., Fort Wayne.

Baraga, Mich.—The Oscar Claussen Enginering Co., National German-American Bank Bldg., St. Paul, Minn., is preparing plans for the construction of a system of water-works here.

Chicago, Ill.—Bids will be received by the Board of Local Improvements until 11 a. m., Sept. 12, for the construction of water pipes in several streets. Edward J. Glackin is Secy.

Bids will be received by the South Park Commissioners, 57th St. and Cottage Grove Ave. until noon, Sept. 13, for approximately 16,000 line. ft. of c.-i. water-pipe and specials to be delivered to small parks. John F. Neil is Secy.

Lyons, Ill.—Bids will be received by the Board of Local Improvements until 8 p. m., Sept. 14, for the completion of a water and a sewer system. Frank L. White is Pres.

Rockford, Ill.—The City Council has passed an ordinance providing for the purchase of about 4,000 water meters. C. H. Page, Jr., is City Engr.

Stanford, Ill.—Bids will be received by the city until 2 p. m., Sept. 11, for the construction of 1,418 ft., of 3-in., 8,632 ft. of 4-in. and 248 ft. of 6-in. water main. Melluish & Broyhill are Engrs., Bloomington, Ill.

Sullivan, Ill.—Bids will be received by the Fire and Water Committee of the City Council until 8 p. m., Sept. 18, for sinking a well or water shaft, 250 ft. deep. A. Ashbrook is City Clk.

Chicago, Ill.—Bids were received on Aug. 24 by L. E. McGann, Comr. Pub. Wks., for constructing a parapet and well wall on the Edward F. Dunne crib in Lake Michigan, the work including a circular wall of granite and concrete, with promenade, a circular enclosing well-wall of brick masonry, concrete floor foot-bridge steps, etc. The bids follow: Paschen Bros., 25 North Dearborn St., $34,330; Great Lakes Dock & Dredge Co., 133 West Washington St., $36,990; C. E. Carson Co., 30 North La Salle St., $38,610; John J. Gallery, $40,-980; National Contracting Co., 189 West Madison St., $47,800; T. J. Prendergast, 138 North La Salle St., $49,000. All bidders of Chicago.

Pittsfield, Ill.—The City Council has ordered a preliminary survey made for the construction of a complete water-works and sewer system.

Peoria Heights, Ill.—The village is considering the installation of a water-works system. Plans will be prepared. One plan is to secure the supply from the Peoria Water-Works; the other, to drill wells.

Staunton, Ill.—Bids will be received until 7.30 p. m., Sept. 5, by the City Council for constructing 2-stage turbine centrifugal pumps, each to be direct-connected to a single-phase motor. George H. Luker is Mayor.

Cambridge, Wis.—Bids will be received by the Village Board, until Sept. 9, for digging, laying and filling a trench for 2,200 ft. of 5-in. iron pipe, five Corry fire hydrants and all necessary connections.

West Allis, Wis.—Bids will be received by the Board of Public Works until noon, Sept. 23, for the construction of water-pipe with necessary hydrants, connections, fittings, etc., in portions of several streets. Frank Douville is Chn.

✚Fort Dodge, Iowa.—The contract has been awarded to GRIFFIN & WALKER, of Zion City, Ill., for sinking a well 2,000 ft. deep here, at $7,375.

✚Prairieburg, Iowa.—The contract for drilling a well for the water-works, has been awarded by the city to W. L. THORNE & CO., of Plattsville, Wis., at $2.25 per ft., town to furnish casing. Bids were opened on Aug. 21.

St. Paul, Minn.—The Water Board has adopted a resolution asking the Engineer to prepare plans for two new reservoirs, one on the low service at McCarron Lake, and one at the high service reservoir site on Dale St. extended. Estimated cost, about $250,-000.

Aurora, Minn.—Bids were opened on Aug. 21 by C. H. Graham, City Recdr., for digging and refilling a ditch for water mains. We are officially advised that the following bids were submitted: August Knuti, 38.5 cts. per ft.; Victor Jacobson, 40 cts.; Henry Shetonen, 75 cts.

Chapman, Kan.—Burns & McDonnell,, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., have completed plans for the construction of a water-works system here. Estimated cost, $25,000. Noted on Aug. 24.

Lincoln, Neb.—The Republican Valley Reservoir & Irrigation Co. has made application to the State Board of Irrigation for permission to construct a reservoir in the southwestern part of the state.

✚Anselmo, Neb.—The contract for the construction of the water-works system here has been awarded to C. G. EMPFIELD, of Lincoln, Neb.

Shelby, Neb.—The city has voted to issue $15,000 of bonds for the installation of a water-works plant.

Union, Neb.—The city is considering the installation of a water-works system for fire protection.

David City, Neb.—Bids will be received by T. B. Myers, City Clk., until 8 p. m., Sept. 8, for enlarging, extending and improving the water-works system, comprising brick power-house, station piping, c.-i. pipe and special castings, hub and valves and fire hydrants, laying water mains and setting hydrants, etc Estimated cost, $15,700.

Ogallala, Neb.—Bids will be received by the City Clerk until Sept. 8 for the construction of a system of water-works. Estimated cost, $20,000. Bruce & Standevin are Engrs., Bee Bldg., Omaha, Neb. Noted on Aug. 31.

Mobridge, S. Dak.—The city proposes to construct a tank and tower. Estimated cost, about $7,000. V. F. Plaustiehl, of Mobridge, is Engr.

✚Minot, N. Dak.—The contract for the installation of water mains here has been awarded to H. W. KEMPER, of Minot,, at $9,177 for ten streets and $6,758 for four streets. Other bidders were: W. B. Bosworth, $9,562 and $6,-082; Magnee Johnson, $9,649 and $7,038; L. W. Schruth, $9,547 and $6,868. Tanner Bros., $9,504 and $6.828.

✚Bismarck, N. Dak.—Contracts have been awarded for the construction of the water-works system for the State Capitol, as follows: For the steel tank to GRAMS & PEET, of Bismarck, at $3,597; to same for the water pipe at $37.20 per ton; it is estimated that about 15 tons will be required; for sinking the wells to B. M. BEERS & SON, of Bismarck at $1.25 per ft. The following bids were received for the steel tank: Des Moines Bridge & Iron Co., $4,440; William Bros. Boiler & Mfg. Co., $5,325; Chicago Bridge & Iron Co., $4,800; Minneapolis Steel & Machinery Co., $4,069; GRAMBS & PEET, $3,597 (awarded contract).

Moore, Mont.—The contract has been awarded to the AMERICAN LIGHT & WATER CO., of Chicago, Ill., for constructing the water-works system. Thomas S. Shepperd, of Denver, Colo., is Engr.

Campbell, Mo.—The citizens voted on Aug. 22 to issue $22,000 of bonds for the construction of a water-works system.

Maryville, Mo.—The city has voted to issue $100,000 to either construct or purchase a water-works system.

Monett, Mo.—The city has voted to issue $10,000 of bonds for the improvement of the water-works and electric-light plant.

Princeton, Mo.—The city has voted $7,000 of bonds for extensions to the water-works and electric light plant.

Kirksville, Mo.—S. N. Foley, City Engr., Kirksville, and Hiram Phillips, Consult. Engr., Third National Bank Bldg., St. Louis, Mo., will prepare plans for the construction of a water-works system. Estimated cost, $100,000.

***Muskogee, Okla.**—Bids will be received until 10 a. m., Sept. 19, by the City Council for the construction of a water intake and inlet tower. All bids must be filed with Charles Wheeler, Jr., City Clk. The water-works intake is 54-in. diameter, 2,600 ft. long, and is to be laid across the Arkansas River and up the head of the Grand River. The intake tower is a concrete structure built at the upper end of the intake. Bids are asked for the construction, at a comparatively shallow depth in open trench. Alternate bids are asked for the construction in rock tunnel at a greater depth, tunnel to be lined either with brick or concrete. For details see advertisement in this issue.

Hillsboro, Tex.—The citizens on Aug. 21 voted to issue bonds for $15,000 for extending the water-works system.

Anahuac, Tex.—The Commissioners' Court of Chambers County has been petitioned to order an election to vote on the proposition of creating an irrigation district to embrace about 75,-000 acres of land bordering the Trinity River. The property holders of the proposed district, it is reported, are in favor of the proposition. Bonds will be issued, the proceeds to be used to construct large irrigation works.

Bryan, Tex.—The citizens have voted to issue $20,000 of bonds for completing the water-works, sewers and electric-light plant.

Cleburne, Tex.—Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., have completed plans for constructing water-works . Estimated cost ,about $200,000.

Bokchito, Okla.—The city has voted $12,500 of bonds for the installation of water-works with a daily capacity of 50,000 gallons, including pump-house, steel tower, etc.

Stillwater, Okla.—She city has voted $15,000 of bonds for water-works extensions.

Wainright, Okla.—The city will receive bids until Sept. 7 for the construction of water-works, including earth dam, reservoir, capacity, 8,000,-000 gallons; tank, 30,000 galons. Edgar M. Graham, Muskogee, Okla., is Engr. Noted on Aug. 24.

Altus, Okla.—The city has decided to install a 250,000-gallon pressure filter for the water supply. B. L. Boyle is City Engr.

Norman, Okla.—The town has voted to issue $12,500 of bonds for the extension of the water system.

Tulsa, Okla.—The city will issue $20,-000 of bonds for improvements to the water-works system.

Carlsbad, N. Mex.—Bids have been asked for the construction of a concrete dam across the Pecos River, near Carlsbad, by the Public Utilities Co., of Carlsbad. The contract will be let Oct. 16. W. H. Merchant is Secy. J. W. Lewis is Engr.

Silver City, N. Mex.—John K. McThompson is preparing to construct a large system of irrigation near here, including a dam across Stone Corral draw to impound sufficient water to irrigate about 1,200 acres of land.

Auburn, Wash.—The citizens have voted $6,000 of bonds for the construction of a new reservoir.

Burlington, Wash.—The city has decided to construct a water system. A pumping plant will be erected.

Marcus, Wash.—Surveys are being made by Albert E. Keller, City Engr., for the construction of a water-works and sewer system.

✚Seattle, Wash.—The contract has been awarded to the SEATTLE BOILER WORKS by the city for riveting, caulking and laying about 3,500 ft. of 36 and 40-in. steel pipe from Volunteer Park to Lake Union in connection with Subdivision 6 of the Cedar River Water Supply System, at $10,000.

✚McDERMOTT & CARMODY, Alaska Bldg., Seattle, Wash., have been awarded the contract for excavating and back filling for the pipe-line ditch in connection with Subdivision 6, of the Cedar River Water Supply System.

Alturas, Cal.—Bids will be received until Sept. 15 by the town for the installation of the distributing system of the water-works system. Sloan & Robson, Nevada Bank Bldg., San Francisco, Cal., are Engrs. C. H. Dunlay is City Clk.

Los Angeles, Cal.—The Public Service Commissioners on Aug. 22 adopted reports granting extensions of the city water system as soon as practicable to the district covered by the Stoll and Ritzman Water Co. and the Star Water Co.

San Rafael, Cal.—The city is considering the construction of a water-works system.

Fillmore, Cal.—Bids will be received by the Southside Improvement Co., Fillmore, until Sept. 16, for furnishing and laying 8,939 ft. of 36-in. concrete irrigating pipe, 1,777 ft. of 30-in. concrete irrigating pipe and constructing intake and division boxes, etc. George N. King is Secy., Fillmore.

Redlands, Cal.—The City Council has accepted the plan of City Engineer for an auxiliary high-pressure water system for the business district. The plans call for a 14-in. direct line of pipe from the reservoir to Citrus Ave., with laterals of smaller size on the cross streets. Estimated cost, $50,000.

Toronto, Ont.—The Board of Control has decided to recommend to the Council that the question of issuing $420,-000 of bonds for the addition of seven filter beds to the filtration plant be submitted to the ratepayers in January. C. H. Rust is City Engr.

Scott, Sask.—See item under Light and Power Plants.

SEWERAGE.

(**Denotes that this work is advertised in Engineering News.*)

Syracuse, N. Y.—The bids received by the Board of Contract and Supply for sewer construction in the First Ward exceeded the estimate. They will probably be rejected and new bids asked. The bids were: Samuel Bonn, $19,707, and Anthony Sposato, $20,146.

Yonkers, N. Y.—See item under Streets and Roads.

✚Binghamton, N. Y.—Bids for the construction of a sewer in the First Ward have been received as follows: J. J. Tyne, $9,171; George Serifina, $8,-859; DAVID TUMPUSKY, $8,462 (awarded contract); George Pignatello, $9,500.

Syracuse, N. Y.—Bids will be received by the Board of Contract and Supply until 1.30 p. m., Sept. 11, for furnishing materials and constructing a 15-in. pipe sewer in St. Marks Ave., from West Fayette St, to Lowell Ave., and a 12-in. pipe sewer in Lowell Ave., from St. Marks Ave. to School St., in accordance with the plans and specifications of the City Engineer on file in office of the Board of Contract and Supply.

***Franklinville, N. Y.**—Bids will be received by A. Cole, Village Clk., until noon, Sept. 20, for the construction of a sewerage system.

Asbury Park, N. J.—Bids will be received by the Common Council until 8 p. m., Sept. 11, for improving and extending the sewer system and sewage disposal plant. Copies of the plans and specifications may be obtained at the office of William C. Burroughs, City Clk., Asbury Park, and at the office of Twombly & Henney, Engrs., 111 Broadway, New York.

Beaver Falls, Pa.—We are officially advised that the Boroughs of College Hill and Patterson Heights have retained Leo Hudson, Haverstraw, N. Y., as Consult. Engr., for the construction of a sewer system.

***Altoona, Pa.**—Bids will be received by the Board of Public Works until 3 p. m., Sept. 15, for constructing 2,000 ft. of reinforced-concrete sewer. W. M. C. Craine is Pres. Bd.

***Reading, Pa.**—Bids will be received by Lincoln S. Ramsey, City Clk., until 2 p. m., Sept. 20, for constructing a concrete storm sewer on Franklin St., between the canal of the Schuylkill Navigation Co. and Sixth St. E. B. Ulrich is City Engr.

Baltimore, Md.—Bids will be received at the office of the City Register addressed to the Board of Awards, for the construction of a lateral sewer on Park Heights Ave., between Third and Fifth Aves., until Sept. 13. Calvin W. Hendrick is Ch. Engr. Sewerage Comn.

***Baltimore, Md.**—We are officially advised that bids on Sanitary Contract No. 68, nozzles for sprinkling filters at the Sewage Disposal Works, have been received as follows: Merritt & Co., Camden, N. J., $2,900; Pacific Flush Tank Co., New York, $5,700. Calvin W. Hendrick is Ch. Engr., Sewerage Comn.

✚Washington, D. C.—The contract for laying 5,040 ft. of sewer mains in Massachusetts Avenue Heights has been awarded by the Commissioners to the WARREN F. BRENIZER CO., Washington, at $33,800.

Portsmouth, Va.—See item under Streets and Roads.

Clinton, S. C.—We are officially advised that bids for constructing a system of sanitary sewers were received on Aug. 21, as follows: Geo. W. Waring, Columbia, S. C., $27,908; Abee & Hart, Hickory, N. C., $27,811; Sullivan, Long & Co., Bessemer, Ala., $27,374; Doles & Myers, Meridian, Miss., $27,193; Charleston Engineering & Contracting Co., Charleston, S. C., $27,738; Greenwood Hardware Co., Greenwood, S. C., $30,807; I. C. Mishler, Chattanooga, Tenn., $27,639; W. R. Flynn & Co., Chattanooga, Tenn., $29,094; F. M. Benner & Co., Eastman, Ga., $28,822. W. H. Millan is Chn. Sewer Comn. Noted July 20.

Timmonsville, S. C.—We are officially advised that all bids received on Aug. 31, for sewer extension and disposal plant have been rejected. New bids will be received until Sept. 20. The work is estimated as follows: 9,000 lin. ft. of 8-in. vitrified pipe, 250 lin. ft. of 12-in. vitrified pipe, 200 Y branches, 28 manholes and 16 5-in. siphon flush-tanks. J. Newton, Johnston, Florence, S. C., is Engr., and E. A. Medlin, City Clk.

Maryville, Tenn.—The Town Council is considering the construction of a sewer system to cost $30,000.

Hilliard, Ohio.—Plans and specifications are being prepared for a sewage system for the village of Hilliard, to be constructed some time during the fall. An appropriation of $8,000 has been made by the City Council for this work.

Cincinnati, Ohio.—Bids will be received by the Director of Public Service, John J. Wenner, Clk., until noon, Sept. 11, for constructing main and lateral sewers and drains in Babb Alley, from St. Peters to Page St.

London, Ohio.—Bids will be received by John W. Byers, Vil. Clk., until noon, Sept. 8, for constructing a sanitary sewer in Elm St. H. M. Chaney is Mayor.

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Bucyrus, Ohio.—Bids were received Sept. 1, for the construction of a sewer in Sandusky and Oakwood Aves., as follows: Smith & Penny, Lorain, concrete, $41,598; pipe, $30,307; block, $32,867; brick, $31,518. W. W. Kelly, Cleveland, pipe, $43,028; block, $39,234. Thomas F. Hurley, Marion, block, $35,238. Huston & Henderson, Logan, pipe, $36,571; brick, $36,335. L. P. Battefeld, Bucyrus, concrete, $50,669; pipe, $50,669; block, $50,669; Oberlander & Oberlander, Bucyrus, pipe, $31,287; block, $31,671; brick, $31,855. Drake & Sons, Marion, pipe, $36,250; brick, $39,223.

Nashville, Mich.—Bids will be received by Frank A. Purchis. Vil. Clk., until Sept. 13, for constructing about 300 ft. of 12-in. and 2,200 ft. of 8-in. sewers and appurtenances.

Otsego, Mich.—Bids will be received by W. H. Conlon, Vil. Clk., until Sept. 11, for constructing a sewer in North St.

South Haven, Mich.—Bids will be received by the City Clerk until Sept. 15 for constructing 1,150 ft. of 8-in. sewer. Wm. McEwing is Supt. Pub. Wks.

✚Waukegan, Ill.—The Board of Local Improvements has awarded the contract for the construction of the North Side sewer to JOHN BROGAN, Green Bay, Wis., at $25,743.

✚Racine, Wis.—The contract for constructing the Blue River sewer has been awarded to JAMES CAPE & SONS, at $7,200.

Avoca, Iowa.—Bids will be received by the City Council until Sept. 11 for constructing a sewage system, estimated at $13,000.

Cedar Rapids, Iowa.—Bids will be received until Sept. 8 by L. J. Storey, City Clk., for constructing storm water sewers.

International Falls, Minn.—Bids will be received by R. C. Fraser, City Recorder, until Sept. 11, for constructing sewers in portions of Eleventh and Sixth Aves., Seventh, Sixth and Third Sts.

Pueblo, Colo.—William Peach, City Engr., has prepared plans and specifications for the construction of a sewer system in the northern part of the town. The sewer will range in size from 40-in. cement construction to 30-in. clay, and on down to a 12-in. clay sewer, and will form a part of the north side storm sewer system. The estimated cost is $27,879 in storm sewer district No. 1 and $5,388 in district No. 9. The City Council has adopted resolutions of necessity and authorized the clerk to advertise for bids.

✚Salt Lake City, Utah.—We are officially advised that contracts have been awarded as follows for constructing a McGinnis galvanized steel flume: JAS. A. HILAND, at $11,300; for constructing a ditch, BRYANT YOUNG, $11,007. Noted Aug. 31.

✚Kent, Wash.—A contract for constructing a lateral sewer has been awarded to H. T. BARNES at $10,550.

Anaheim, Cal.—The following bids have been received by the City Council for constructing the municipal sewer system: Chamberlain, Williamson & Chamberlain, Pasadena, $41,425; H. Gould, $42,556; R. N. Nikcevich, Los Angeles, $43,540; H. B. Register, Los Angeles, $45,478; Mlagenovich & Gilespie, Los Angeles, $45,480; S. Grobovach, Los Angeles, $45,898; Watson & Spicer, Oakland, $46,209; Peter Grbovach, Los Angeles, $47,049; California Ornamental Brick Co., Los Angeles, $48,491; John Radich, Los Angeles, $48,500; W. N. Hendricks, Los Angeles, $48,950; John Balch, Los Angeles, $51,985; Westlake Construction Co., Los Angeles, $53,240. The system will comprise 51,910 lin. ft. of 6-in., 11,547 of 8-in., 7,084 of 10-in. and 4,533 of 12-in. pipe; 168 manholes; 55 light wells and washouts, and 51 flush tanks.

✚San Francisco, Cal.—Press reports state that a contract has been awarded to F. ROLANDI, for laying the sections of the North Point main sewer in Tenth St., from Howard to Harrison St., and in Harrison St., from Eighth to Tenth St. Total bid, $130,000.

✚North Toronto, Ont.—We are officially advised that the contract for constructing screening chambers, sedimentation tanks, filter beds, etc., was awarded on Aug. 28 to PETER NICHOLSON at $29,744. The other bids were: J. R. Allison, $31,826; Johnston & Jennings, $44,100; John J. Connolly, $42,349. Noted Aug. 17.

Toronto, Ont.—Bids will be received by J. W. Lyon, Pres. Guelph Radial Railway Co. until Sept. 11, for constructing 29,000 ft. of tile drains.

✚New Westminster, B. C.—The contract for constructing the West End sewer system has been awarded to the SINCLAIR CONSTRUCTION CO., at $79,575.

GARBAGE DISPOSAL.

(✚Denotes a contract awarded.)

Boston, Mass.—The city is asking for bids for the disposal of garbage for a period of ten years. L. K. Rourke is Dir. Pub. Wks.

New York, N. Y.—W. J. Gaynor, Mayor, on Aug. 21, approved ordinances providing for the issue of corporate stock including $101,000 for the purchase of land and constructing a refuse destructor, stable and section house at Rockaway, Fifth Ward; and $202,000 for same work at Ridgewood, both of Queens Borough.

Superior, Wis.—The Board of Health, it is reported, has authorized the Health Commissioner, to investigate and report on the feasibility of constructing a garbage crematory. Estimated cost, $25,000.

San Diego, Cal.—A bond election will be held soon to vote on issuing $60,000 of bonds for the installation of a garbage reduction plant.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

Boston, Mass.—Bids will be received until Sept. 11 by the Public Works Department for constructing tar macadam roadways in Doris St. and Hiawatha and Fottler Roads, Dorchester. Louis K. Rourke is Comr. Pub. Wks.

✚We are officially advised that the contract for improving Berkeley and C Sts. was awarded on Aug. 23 to the CENTRAL CONSTRUCTION CO., 6 Beacon St., at $7,834.

✚We are officially advised that the contract for constructing wood block pavement on Dudley St., between Guild Row and Harrison Ave., was awarded on Aug. 21 to JAMES DOHERTY at $14,862. The other bids were: F. S. & A. D. Gore Corporation, $15,081; Central Construction Co., $15,276.

✚The contract for paving Bryant St. has been awarded to JOHN F. O'CONNELL, at $25,069. Other bids were: Coleman Bros., $25,268; Joseph Doherty, $25,341; C. W. Dolloff & Co., $25,701; Simpson Bros. Corpn., $25,772; McGuire & Kiernan, $25,999; William Rafferty Co., $26,162; F. S. & A. D. Gore Corpn., $26,359.

✚The contract for the construction of a tar-macadam road in Brinsley St., Dorchester, has been awarded to JAMES DOHERTY, at $4,534. Other bids were: J. C. Coleman Sons Co., $4,716; William J. Rafferty Co., $4,749; D. E. Lynch, $5,363.

✚The coltract for constructing wood block pavement in Church, Fayette, Ferdinand and Melrice Sts., has been awarded to the F. S. & H. D. GORE CORPORATION, at $19,566. Other bids were: James Doherty, $20,526; Central Construction Co., $21,800.

East Cambridge, Mass.—Bids will be received until Sept. 19 by the Middlesex County Commissioners for building 1,000 ft. of road in South Ave., Weston. Levi S. Gould is Chn. Comrs.

Norwalk, Conn.—Bids will be received by J. J. Kenna, City Clk., until Sept. 11 for paving Water and Main Sts. and West Ave. with brick, creosoted wood block, bitulithic, asphalt or concrete, on cement foundation.

Hartford, Conn.—Bids for state road work were received at the office of James H. McDonald, State Highway Comr., on Sept. 5, as follows:

Town of Watertown, 3,110 lin. ft. macam or gravel road, 16-ft. roadway on the Waterbury Turnpike: Ahern Bros., Norwich, Conn., $1.60 per lin. ft. for gravel, $2.50 for telford, $2.90 per lin. ft. for macadam, $3.50 for telford; $3.30 per sq. yd. for brick pavement, $1 per lin. ft. for rubble drain, 75 cts. per sq. yd. for cobble gutters, $6 per cu. yd. for masonry walling, 44 cts. per lin. ft. for pipe railing; Mascetti & Holley, Torrington, Conn., $1, $1.75, $3.30, $3.80, $2.75, $1, 80 cts., $4, 60 cts.; F. Arrigoni & Bro., Middletown, Conn., $1.93, $2.53, $3.96, $4.86, $2.10, $1, 65 cts., $7, 60 cts.; Edward McManus, Waterbury, Conn., $1.66, 2.56, $4, $4.60, $3.14½, $1, 57½ cts., $5, $1.

Town of Old Lyme, 2,335 lin. ft. macadam-telford on new road, heavy grading, 16-ft. roadway: Ahern Bros., Norwich, Conn., $4.31 per lin. ft. for macadam, $4.86 for telford, $1 per lin. ft. for rubble drain; F. Arrigoni & Bro., Middletown, Conn., $2.97, $3.57, $1; A. Vito Corp., Thompson, Conn., $3.78, $4.38, $1.25; Donohue Bros., $3.74, $4.34, $1.

Town of Watertown, 1,900 lin. ft. combination macadam-gravel on the Litchfield Road, heavy grading: Ahern Bros., Norwich, Conn., $3.28 for macadam, $3.90 for telford, 90 cts. for rubble drain, 70 cts. per sq. yd. for cobble gutters; F. Arrigoni & Bro., Middletown, Conn., $3.30, $3.78, $1, 65 cts.; O. T. Benedict, Pittsfield, Mass., $3.59, $4.38, 99 cts., 59 cts.; Edward McManus, Waterbury, Conn., $3.45, $4.75, $1, 65 cts.; Mascetti & Holley, Torrington, Conn., $3.45, $4.20, $1, 80 cts.

Town of Madison, 16,120 lin. ft. grading on the Killingworth Road, medium grading: Pierson Engineering & Construction Co., Bristol, Conn., $17,437 for grading, 70 cts. per lin. ft. extra for telford, $ for rubble drain, $6 per cu. yd. for masonry walling; C. A. Rossi, Torrington, Conn., $20,124, $1.10, $1.10, $5.50; E. G. Pardee, Bethany, Conn., $19,900, 65 cts., $1, $4; F. Arrigoni & Bro,. Middletown, Conn., $14,346, 60 cts., $1, $5; Jones & Pocaro, Willimantic, Conn., $20,150, $2.70, 70 cts., $5; A. Benedict, Pittsfield, Mass., $19,995, 70 cts., 99 cts., $5.99; Town of Madison, by its Board of Selectment, $14,516, 75 cts., $1, $5; A. D. Bridge's Sons., Inc., Hazardville, Conn., $15,397, 60 cts., $1, $7; Vito Corporation, Thompson, Conn., $28,200, 80 cts., $1.25, $6; E. W. Peck, Stratford, Conn., $11,935, $1, $1, $8; Joseph D' Aloia, Clinton, Conn., $20,200, 85 cts., 80 cts., $5; Sternberg & Cadwell, West Hartford, Conn., $11,900, 75 cts., $1, $5.

Town of Burlington, 4,912 lin. ft. combination macadam-gravel road, medium heavy grading: Ahearn Bros., Norwich, Conn., $2.32 per lin. ft. for macadam, $2.95 for telford, 90 cts. per lin. ft. for rubble drain; Thomas Kearney, Meriden, Conn., $2.38, $3.03, $1; John de Michiel & Bro., Torrington, Conn., $1.59, $2.19, $1; Pierson Eng. & Cons. Co., Bristol, Conn., $2.10, $2.80, 90 cts.; Clayton T. Curtiss, Glastonbury, Conn., $3.18, $4, $1; O. T. Benedict, Pittsfield, Mass., $2.29, $3.08, 9 cts.; Mascetti & Holley, Torrington, Conn., $1.99, $2.74, 75 cts.; Joseph D'Aloia, Clinton, Conn., $2.12, $2.20, 85 cts.; Sternberg & Cadwell, West Hartford, Conn., $2.19, $2.94, $1.

Town of Fairfield, 2,900 lin. ft. gravel road on Greenfield Hill, heavy grading: Henks & Goepple, aWterbury, Conn., $4.66 per lin. ft. for gravel, $5.41 for telford, $1 for rubble drain, 75 cts. per sq. yd. for cobble gutters; H. Sanford Osborne, Redding Ridge, Conn., $2.70, $3.80, $1, 75 cts.; B. D. Pierce, Jr., Co., Bridgeport, Conn., $2.30, $2.90, $1, 75 cts.

Town of Wethersfield, 683 lin. ft., heavy grading, macadam-telford on Wells Ave.: Pierson Engineering & Construction Co., Bristol, Conn., $4.75 for macadam, $6.25 for telford, $1.50 per lin. ft. for rubble drain; Thomas Kearney, Meriden, Conn., $3.77, $4.30, 95 cts.; A. W. Byrne Co., Hartford, Conn., $4.22, $5, 80 cts.

Town of New Fairfield, 2,417 lin. ft. heavy grading on the Brookfield Road: Goodman & Trumbull, Litchfield, Conn., $6,128 for grading, 90 cts. yer lin. ft. extra for telford, 80 cts. per lin. ft. of rubble drain; C. A. Rossi, Torrington, Conn., $4,700, 80 cts., $1.10; H. Sanford Osborne, Redding Ridge, Conn., $4,700, 90 cts., 75 cts.; Joseph D'Aloia, Clinton, Conn., $4,800, 85 cts., $1; E. G. Pardee, Bethany, Conn., $4,974 for the grading; Norris Hatch, New Fairfield, Conn., $4,834 for the grading.

Jamaica, N. Y.—Bids for paving have been received as follows:

Woodhaven Ave., from Jamaica Ave. to Forest Park Driveway, Barber Asphalt Paving Co., $6,216; Continental Public Works Co., $8,288; Standard Bitulithic Co., $9,632.

Hempstead and Jamaica Turnpike, from Grand St. to Harvard Ave., Barber Asphalt Paving Co., $9,851; Joseph Upton Co., $13,689; Standard Bitulithic Co., $17,476.

Merrick Road, from Fulton St. to a point 1,500 ft. south of Central Ave., Springfield, Continental Public Works Co., $17,490; Barber Asphalt Paving Co., $18,526; Standard Bitulithic Co., $21,615; Joseph Upton Co., $24,255.

The repaving to be done is to be asphaltic concrete, warrenite or amesite on macadam foundation.

✚Mount Vernon, N. Y.—The Common Council has awarded to the EASTERN ASPHALT PAVING CO., at $39,451, the contract for paving East Lincoln Ave., between Columbus Ave. and the city line, with bituminous macadam. The contract for paving East Third St., with brick, from South Fourth Ave. to the city line, has been awarded to LOUIS PETRILLO, at $25,710.

Yonkers, N. Y.—The Board of Contract and Supply, James V. Mahony, Secy., has been authorized by the Common Council to advertise for bids for grading and improving New Ave., 241st St., Fairview Ave., Marlborough Road, Frederic St., Palmetto Road, Armstrong Ave. and Murray Ave., and for constructing sewers in Belvidere Pl. and Ashburton Ave., and a storm water and house sewer in Glen Road and Glen Ave.

The Common Council has voted to extend School St., from Nepperhan Ave. to Palisade Ave., and Elm St., at a cost of $120,000. Daniel J. Cashin is Council Pres. and John T. Geary, City Clk.

Jersey City, N. J.—Bids will be received by the Board of Chosen Freeholders of Hudson County until 3 p. m., Sept. 7, for improving the Belleville Turnpike Road, from the Newark Turnpike to Saw Mill Creek, in the town of Kearny. S. M. Egan is County Controller.

✚Newark, N. J.—The contract for repaving Market St., from Pierson's Alley to Ferry St., with bitulithic, has been provisionally awarded by the Board of Works to the STANDARD BITULITHIC CO. at $65,150.

Philadelphia, Pa.—Bids will be received by the Department of Public Works until Sept. 12 for street work to cost about $250,000.

***Dorranceton, Pa.**—Bids will be received by the Joint Street Committee of the Boroughs of Kingston and Dorranceton, at the Council Room in the Borough of Dorranceton, until 7.30 p. m., Sept. 18, for paving and curbing Butler St., between Wyoming and Rutter Ave., with creosote wood block or vitrified fire clay paving block and steel protected concrete curb, according to the plans and specifications on file in the office of Young & Wintermute, Second National Bank Bldg., or Smith & Welles, Coal Exchange Bldg., Wilkes-Barre. Pa.

Lewistown, Pa.—Bids for constructing the road through the Lewistown Narrows have been received as follows:

Derry Township, Mifflin County, Ridge Brothers, $124,812; S. Pearson & Son, $134,138; R. J. Maloney, $142,158; C. J. Carothers, $147,963; Hiss & Christino, $108,395; United Ice & Coal Co., $163,561; N. E. Howley, $102,762; E. T. Beck & Co., $140,698; E. R. Ryan, $162,234; W. H. Lyon, $184,381; Filbert Paving & Construction Co., $133,718; J. McMenamy, $149,451.

Fermanagh Township, Juniata County, S. Pearson & Son, $143,482; W. E. Evans, $158,111; C. J. Carothers, $147,592; United Ice & Coal Co., $192,689; John Francis, $130,397; N. E. Howley, $142,949; W. H. Lyon, $198,745; Niagara Coal Co., $151,609; Hiss & Christino, $129,420; Filbert Paving & Construction Co., $177,104; J. McMen[illegible] $168,285; E. Ryan, $213,248; Sull[illegible] & Son. $149,462.

Pittsburgh, Pa.—Bids w[illegible] be received by R. J. Cunningh[illegible] County Controller, until 10 a. m., S[illegible] 19, for improving .9 of a mile of [illegible]s Lane.

Harrisburg, Pa.—Bids w[illegible] be received by the State Highw[illegible] Department until 10 a. m., Sept. [illegible] for constructing about 63,045 ft. of [illegible]. Plans and specifications can be s[illegible] at the office of the State Highw[illegible] Department in Washington, Pa.; [illegible]ntown, Pa.; at 303 Hostetter Bldg., [illegible]sburgh, Pa.; at 1011 Chestnut St., P[illegible]lelphia, and at the office of the Sta[illegible]ghway Department, Harrisburg. E[illegible]ard M. Bigelow is State Highway C[illegible]

Pittsburgh, Pa.—Bids wi[illegible] be received by the Borough Coun[illegible] of Dormont, until Sept. 8, for impr[illegible]g Pioneer Ave., requiring 1,570 sq. [illegible] brick paving, 1,380 lin. ft. concret[illegible]rb and gutter and 2,800 cu. yds. gr[illegible]g; also until Sept. 12, for improving [illegible]st Liberty St., requiring 10,700 sq. [illegible] brick paving, 5,100 lin. ft. concret[illegible]rb and gutter and 16,000 cu. yds. gr[illegible]ing. H. M. Stilley is Chn. St. Com., [illegible] Douglass & McKnight, Union B[illegible] Bldg., Pittsburgh, are Boro. Engrs.

Scranton, Pa.—Bids for pa[illegible]g have been received as follows: (a[illegible]acDonald Construction Co., 146 [illegible]roadway, New York; (b) Warner-Qui[illegible]n Co., Syracuse, N. Y.; (c) R. C. [illegible]uthven, Scranton:

Prospect Ave., from Locust to Front Sts., (a) $1.77, (b) $1.85, (c) $1.95; Engineer's estimate, $54,517.

Boulevard Ave., East Mark[illegible] St. to Olyphant Road, (a) $1.75, (b) $1.84, (c) $1.85; Engineer's estimate, $2[illegible]

Caponse Ave., from Green Ridge to Sunset St., (a) $1.89, (b) $1.48, (c) $1.80; Engineer's estimate, $12,418.

Cedar Ave., from Laurel Line station to Cedar Ave. bridge, (a) $1.74, (b) $2, (c) $1.85; Engineer's estimate, $3,705.

Mahon Court, from Gibson to Myrtle Sts., (a) $1.90, (b) $2.25, (c) $2.05; Engineer's estimate, $2,666.

✚Greensboro, Md.—The Caroline County Commissioners have awarded a contract to the HOLT CONSTRUCTION CO., Federalsburg, Md., to complete the State Road between Greensboro and Frederick.

Portsmouth, Va.—Bids will be received by the Local Board of Improvements, Seventh Ward, D. F. Appelzellers, Chn., until Sept. 8, for grading and constructing combined concrete curbs and gutters, concrete walks, storm water pipe line and catch basins, reinforced-concrete culvert, etc. Bascom Sykes is Engr.

Lewisburg, W. Va.—Bids will be received until Sept. 8 for street improvements estimated at $16,500. J. V. Snyder is Engr.

✚Franklin, La.—A contract for 98,000 sq. ft. of paving and curb construction has been awarded to BOWMAN & LANDRETH, Ruston, La.

New Orleans, La.—Bids will be received by the Highway Department of the State Board of Engineers until Sept. 18 for constructing three miles of shell road in St. Bernard Parish, from Toco Settlement toward Reggio; 17¼ miles of earth road in East Carroll Parish, from Lake Providence to the Arkansas state line; 21¼ miles of earth road in East Carroll Parish, from Lake Providence to the Madison Parish line; 12 miles of earth road in Frankin Parish extending from Winnsboro.

✚New Orleans, La.—Press reports state that a contract for improving the road from the St. Bernard line to Pointe-a-la-Hache, has been awarded by the Highway Department of the State Board of Engineers to M. GARSAUD, New Orleans, at $119,681.

✚Canton, Ohio.—The contract for paving North Cherry and Hiram Sts. has been awarded to LOGAN D. BURD at $11,460.

Cincinnati, Ohio.—Bids will be received by the Board of Commissioners of Hamilton County until noon, Sept. 29, for improving Greenwood Ave., from Walnut to Chester Ave. Stanley Struble is Pres. and Fred Dreihs is Clk.

Cincinnati, Ohio.—Bids will be received by the Board of Commissioners of Hamilton County until noon, Sept. 22, for improving the Shawnee Run Road, from Miami Ave., Madeira, to Washington Ave., Ramona, and various other work. Stanley Struble is Pres., and Fred Dreihs Clk. of Bd.

✚Elyria, Ohio.—The County Commissioners have awarded the contract for grading and macadamizing two miles of the Wellington-Penfield Road to the BUCKEYE ENGINEERING CO., Norwalk, Ohio, at $6,290. Mendleson & Winckles, Elyria, bid $6,418 and Thos. Burt & Son, Wellington, $6,329.

Painesville, Ohio.—Bids will be received by the Commissioners of Lake County until Sept. 12, for grading and macadamizing 1.41 miles of roadway in Madison Township, estimated at $8,794.

Wellington, Ohio.—Bids will be received by L. W. Hart, Clk. of Brighton Township, until noon, Sept. 9, for improving about two miles of road.

✚Wooster, Ohio.—The contract for paving the Applecreek Road has been awarded to D. R. HOUSER, Wooster, at $16,300. The other bids were: Geo. B. Herring, Mansfield, $18,248; Wm. H. Dewell, Creston, $18,528; Lee & Griggs

Millersburg, $17,956; Shannon & Wildeson, Orrville, $18,500; D. A. Phillips, Ashland, $17,[illegible]00.

+Toledo, Ohio.—Contracts for paving have been awarded as follows: Erie St., from Monroe St. to Swan Creek, wood block, CARPENTER & ANDERSON, $30,255.

Buffalo St., Ontario to the Maumee & Erie Canal, Westrumite, CENTRAL WESTRUMITE CO., $4,562.

Mulberry St., Bancroft to Sherman Sts., Metropolitan brick, A. A. REILLY, $4,919.

Harriett St., from Nebraska to Hamilton Sts., brick, THOMAS J. KELLY, $4,385.

Belmont St., from Ewing to Hawley Sts., Nelsonville brick, ROSCOE FRENCH, $[illegible],910.

Frank St., from Walbridge to South Ave., carbolia paving, D. J. RAYMER, $2,499.

West Grove Pl., from Glenwood to Lawrence Ave., brick, A. A. REILLY, $5,106.

Woodland Ave., from True St. to Detroit Ave., Nelsonville brick, ROSCOE FRENCH, $7,098.

Viking St., from Oak to Navarre St., brick, M. F. O'SULLIVAN, $3,898.

Detroit Ave., from Central Ave. to Collingwood, asphalt block, ASPHALT BLOCK PAVEMENT CO., $29,573.

Heston St., from Dorr to Avondale, Westrumite, CENTRAL WESTRUMITE CO., $7,411.

Warren, Ohio.—Bids will be received by the Commissioners of Trumbull County until Sept. 15, for grading and paving with concrete 2.69 miles of roadway in Hartford Township. The estimated cost of the work is $15,284.

Youngstown, Ohio.—Bids will be received by the Commissioners of Road District No. 1, Mahoning County, until 1.30 p. m., Sept. 11, for improving a portion of the Boardman Road. Frank Agnew is Secy.

Sandusky, Ohio.—See item under Miscellaneous Contracts — Crushed Stone, Sandusky, Ohio.

Indiana Road Improvement.

Bids will be received as follows for highway improvement in Indiana:

Sept. 9.—Frankfort, by the Commissioners of Clinton County until 2 p. m., for ten gravel roads. C. H. Troy is County Audr.

Sept. 15.—Indianapolis, by the Board of Public Works, until 10 a. m., for gravel roadways, paving, sidewalks, etc.

Oct. 10.—Bluffton, by the Commissioners of Allen and Wells Counties for a gravel road. O. D. Garrett is County Audr.

Contracts Awarded.

Indianapolis.—The Swank Road, to JAMES O'CONNER, Indianapolis, at $18,000.

Detroit, Mich.—The Common Council has directed the Department of Public Works, J. J. Haarer, Comr., to advertise for bids for paving Lycaste Ave., 26 ft. wide, and Melbourne Ave., 26 ft. wide, with cedar blocks, on concrete foundation. Estimated cost, $17,976.

+Grand Rapids, Mich.—A contract has been awarded to HILDING & WHITING, at $14,002, for improving Court St., from Shawmut Ave. to West Bridge St.

+Hamtramck, Mich.—The contract for paving Campau Ave. has been awarded to R. D. BAKER & CO. at $18,005.

Rockford, Ill.—Bids will be received by W. W. Bennett, Pres. Bd. Local Impvts., until 1.30 p. m., Sept. 12, for furnishing material and paving with brick portions of West State St. Approximate quantities are as follows: Excavation, 6,300 cu. yds.; combined curb and gutter, 10,400 lin. ft.; brick pavement, 17,785 sq. yds.; cement gutter, 2,100 lin. ft.; curbing reset, 500 lin. ft.; crossing headers with cast-iron covers, 90. Plans and specifications may be had on application to the City Engineer.

+Clarinda, Iowa.—A contract for paving at Clarinda has been awarded to the PLATTSMOUTH CONSTRUCTION CO., Plattsmouth, Neb., at $22,000.

Des Moines, Iowa.—Preliminary plans have been made for paving the road to Fort Des Moines, at a cost of $40,000. Frank T. Morris is County Superv.

Marshalltown, Iowa.—We are officially advised that the lowest bid received on Aug. 28 for constructing 15,000 cement pavement, was submitted by J. S. McLaughlin & Sons at $1.18 per sq. yd. There were seven other bids ranging from $1.18 to $1.49.

Minneapolis, Minn.—The bids received by the County Commissioners for constructing Superior Boulevard have been rejected as excessive. New bids will be asked. The cost is estimated at $40,000.

Minneapolis, Minn.—Bids will be received by A. P. Erickson, County Audr., until 11 a. m., Sept. 25, for grading and graveling Road No. 10, Contract No. 28.

Kansas City, Mo.—The lowest bid received by the County Court for grading Blue Ridge Road through Raytown to Swope Park, was submitted by Colyer Bros. at $23,005.

+A contract for grading 3½ miles on the Sechrest and Davenport roads has been awarded to MICHAEL ROSS at $16,908.

Neosho, Mo.—Bids will be received by Gabe Brown, Highway Engr. of Newton County, until Sept. 8, for constructing granitoid pavement, concrete gutter, etc., according to plans on file with the County Clerk.

St. Louis, Mo.—Bids will be received by the Board of Public Improvements until noon, Sept. 8, for improving De Baliviere Ave., from Forest Park to Delmar Boulevard, and other streets.

Abilene, Tex.—Bids will be received until Sept. 7 for paving the Pine St. crossing of the Texas & Pacific Ry. The work includes 3,611 sq. yds. asphalt macadam paving, 510 lin. ft. cement gutters, and 1,096 lin. ft. oak headers. Specifications are on file with C. E. Leonard, City Engr.

Hamlin, Tex.—We are officially advised that bids will soon be asked for paving eight blocks with macadam, at an estimated cost of $80,000. For further information address P. E. Fraser.

Bastrop, Tex.—Bids will be received by J. N. Jenkins, Mayor, until Sept. 7 for paving with gravel macadam and constructing concrete curb and gutter on three blocks of street.

Logan, Utah.—Bids for paving in District No. 20 have been received by the City Council as follows: J. E. Wilson, Logan, $13,039; N. J. Andrews, Logan, $17,597; Wheelwright Construction Co., Ogden, $16,727; Leroy S. Hill, Wellsville, $17,076; N. J. Moran, Ogden, $17,704.

+Spokane, Wash.—We are officially advised that the contract for constructing a macadam road on Sunset Boulevard, a distance of about ten miles, was awarded on Aug. 29 to the J. F. HILL PAVING CO. at $18,430. The other bids were: Barber Asphalt Paving Co., $18,820; Mandei & Sorenson, $18,300; Bitumas Paving Co., $22,528; Engineer's estimate, $19,625. Noted Aug. 17.

Spokane, Wash.—Bids will be received by the Commissioners of King County until 3 p. m., Sept. 19, for grading about 10,000 ft. of 24-ft. roadway, according to plans on file with the County Engineer, Seattle.

+Spokane, Wash.—The City Commissioners have awarded the contract for paving Seventh Ave. to the SPOKANE BITU-MASS PAVING CO. at $13,533.

Chehalis, Wash.—Bids will be received until 8 p. m., Sept. 11, for laying Warrenite pavement and constructing concrete curbs on Washington Ave., First St., Second St., Third St. and Fourth St.

Shelton, Wash.—Bids will be received by the Board of Commissioners of Mason County until 10 a. m., Sept. 15, for the construction and improvement of part of Permanent Road No. 1 according to specifications on file with the County Auditor.

+Alhambra, Cal.—MONTGOMERY & MARSH, I. W. Hellman Bldg., Los Angeles, have been awarded the contract by the City Trustees for paving with macadam and constructing cement curbs and gutters on San Bernardino Road, at $20,000.

San Bernardino, Cal.—The following bids have been received by the City Council for macadamizing and constructing concrete gutters and culverts on Eighth St., between D and G Sts.: ERNEST FREUZEL, $9,931 (awarded contract); Johnson-Shea Co., $10,486, John Newman, $10,689. The item bids were: 8.6 cts. per sq. ft. for paving and 40 cts. per lin. ft. for 3-ft. cement gutter.

Toronto, Ont.—Bids will be received by G. R. Geary, Mayor, and Chn. Bd. of Control, until noon, Sept. 12, for paving, grading, constructing concrete walks, etc., on various streets.

MANUFACTURING PLANTS.

(*+Denotes a contract awarded.*)

Bangor, Me.—The Armour Co. will soon erect at Northern Maine Junction a repair and storage plant for the heater and refrigerator cars which are in use on the Bangor & Aroostok Ry. as carriers of potatoes. The new plant is to be ready for operation by Nov.

+Belmont, Mass.—The contract has been awarded to WILLIAM H. ILIFFE, at $15,000, for the construction of a 3-story factory for A. W. Elson Co., 146 Oliver St., Boston.

+Boston, Mass.—The contract for the Brown-Wales warehouse and manufacturing building to be erected on Fargo St., South Boston, has been awarded to the NATIONAL FIREPROOFING CO., 120 Franklin St. To be eight stories, 132 x 100 ft., of steel, brick and terra cotta. To have three freight elevators. To be completed June, 1912. Arthur F. Bowditch, 7 Water St., is the Arch. Noted Aug. 24.

Chicopee, Mass.—Two factory buildings are to be erected soon by the Lamb Knitting Machine Co. To be a 5-story brick building 100 × 50 ft., and a 2-story foundry, 168 × 60 ft.

Franklin, Mass.—A blanket mill is soon to be built by the Clark-Cutter-McDermott Co. William Cutter is Pres.

North Adams, Mass.—A tannery, to be built of reinforced-concrete, is projected by the Dean Spencer Leather Co. Nothing will be begun before 1912.

The Hoosac Cotton Co. is planning the erection of a spinning mill, to be erected on the property east of the present building, known as the Eclipse Mill.

Springfield, Mass.—Bids will be asked at once for the manufacturing plant West Springfield of the Gilbert & Barker Manufacturing Co. There are to be eight buildings, in addition to a coal pocket, barn, garage and sheds. The sheet metal building will be 250 × 160 ft., one story. The furnace building will be 120 × 83 ft., one story. There are to be two storage buildings, 90 × 30 ft. and 170 × 30 ft., both one story. Power house to be 90 × 52 ft., all of brick. Edward H. McClintock is the Engr. Noted July 20.

Peabody, Mass.—The L. B. Southwick Co., on Foster St., will at once erect a 5-story addition to their factory.

Rockland, Mass.—An addition to the shoe factory of Rice & Hutchins is about to be made. To cost $50,000; to be 175 × 57 ft.; four stories. H. H. Rice is Pres.

Salem, Mass.—Two leather factories will shortly enlarge their plants—the Cook Bros. Leather Co., on Proctor St., and the Peter Sim & Son, on Beaver St.

+Waltham, Mass.—The contract for the organ factory to be built for the Hutchins Organ Co., 18 Tremont Bldg., has been awarded to the WOODRUFF CO., 29 West 34th St., New York City. To be of reinforced concrete, four stories, 100 × 30 ft; to cost $30,000. Robert J. Coulbert, 131 Milk St., Boston, is the Arch.

+Westfield, Mass. — CASPER RANGER, of Holyoke, Mass., has been awarded the general contract for the erection of a $25,000 addition to the plant of the H. B. Smith Co., which will be used as a core building. It will be of brick and steel, with asbestos roof. LEVERING & GARRIGUS, of New York, have the contract for the steel work. C. A. Tinker, Westfield, is the Arch.

+Worcester, Mass.—F. W. MARK, 4 Walnut St., has been awarded the contract to build a factory between Armory St. and the N. Y. N. H. & H. RR. for the Critchley Machine Screw Co. Cutting, Carelton & Cutting, Chase Bldg., 44 Front St., drew the plans, which call for a building 50 × 250 ft., one story and basement, with an additonal story at one end for the office, of brick and steel, with concrete foundation, steam heat, electric lights, etc.

Worcester, Mass.—Bids are being received for a factory building to be erected on Shewsbury St., for Oliver M. Deane, to be 72 × 48 ft. Edwin T. Chapin, State Mutual Bldg., is the Arch.

Crompton, R. I.—A 3-story annex is about to be built to the plant of the Crompton Velvet Co. To be 133 × 60 ft.

Naugatuck, Conn.—A factory is projected by the Risdon Tool and Macnine Co.

New Haven, Conn.—Estimates are being received on plans of Philip Sellers, 756 Chapel St., for the building at the plant of the New Haven Machine Screw Co. It will be 40 × 125 ft., two stories high, and will be figured for reinforced-concrete and slow burning mill construction.

+Buffalo, N. Y. — The Victor Motor Truck Co., 1455 Niagara St., has awarded the contract to the EASTERN CONCRETE STEEL CO., D. S. Morgan Bldg., Buffalo, for construction of the main building of its plant at Beaver Road and the New York Central R. R., North Buffalo. The building will be 60 × 270 ft., of reinforced-concrete.

The Buffalo Leather Oil Co. has been incorporated at Buffalo, with an authorized capital stock of $100,000, and will establish a plant for the production of oils. The incorporators are W. Foster, F. Stein and J. T. Lyman.

Lockport, N. Y. — Plans have been completed for the erection of a 2-story laundry building for the Niagara Laundry Co., Pine St., Lockport. James Walker, 31 Builders' Exchange, Buffalo, is Arch.

Jamestown, N. Y.—The Jamestown Woodfinishing Co., Jamestown, N. Y., recently incorporated with a capital stock of $50,000, will erect a 2-story factory at Blackstone and Driving Park Aves., on the Erie R. R., East Jamestown, where fillers and stains for wood and metal furniture will be made. Ambrose E. Smith, of Olean, N. Y., is Pres., and John Dahlquist, Jamestown, is Vice-Pres. and Sec.

New York, N. Y.—The United Rubber Co., 5 Nassau St., New York, has been incorporated with $100,000 capital stock. The incorporators include A. A. Sands, E. C. Baker, Frank B. Vermilya.

+North Tonawanda, N. Y.—The North Tonawanda Musical Instruments Works has awarded to MORRIS & ALLEN, of North Tonawanda and Buffalo, the contract for a 4-story brick factory building here, at $50,000.

+Syracuse, N. Y. — The general contract has been awarded to C. A. P. TURNER CO. for the erection of a 3-story bakery building for Thomas Kelley. The cost is about $20,000.

Poughkeepsie, N. Y.—The Vassar Brothers' Hospital, Poughkeepsie, N. Y., is receiving bids for the building and equipment of a 1-story brick boiler and laundry building 43 x 120 ft.

Poughkeepsie, N. Y.—The C. H. Lynch Shoe Manufacturing Co., Poughkeepsie, N. Y., will build a 4-story addition to its factory on Market St.

Utica, N. Y.—The Durr Packing Co., Utica, N. Y., has completed plans for a 2-story addition it will make to its packing plant on Schuyler St.

North Bergen, N. J.—S. Stemswitz, 651 43d St., New York City, will erect a 1-story embroidery factory, 92 x 100 ft. Plans are being prepared by Emil Guhl, 19 Charles St., Jersey City. The cost is $10,000.

+Hoboken, N. J.—Contracts for the construction of a factory on the west side of Jefferson St., between Eighth and Ninth Sts., for Leon Henry have been awarded to MARTIN FARRELL & SON, masons and to AUGUST MERKEL. Plans for the structure have been prepared by Charles Fall, Arch. The building will be three stories high, 50 × 90 ft. and cost $25,000.

Erie, Pa.—The Griswold Mfg. Co. has decided to build a 2-story addition to their plant at Twelfth and Raspberry Sts.

Pittsburgh, Pa.—The Hubbard Shovel Co., 62d and Butler Sts., will erect a factory building to cost $25,000. Plans have been completed by Thomas Hannah, Keenan Bldg. Bids are being received.

Dover, Del.—The Keyoke Ry. Equipment Co., has been incorporated at Dover, Del., with an authorized capital stock of $500,000, to engage in the manufacture and sale of such equipment.

Wheeling, W. Va.—The Mound City Glass Works awarded the contract to JAMES BONAR, Wheeling, to erect an addition, 30x80 ft. to their plant.

Cincinnati, Ohio.—Plans have been prepared by the George H. Stretmann Baking Co., Twelfth and Canal Sts., for the construction of a bakery. The cost is $35,000. G. W. Drach, Union Trust Bldg., is Arch.

Newark, Ohio.—Licking Light & Power Co., has been purchased by the American Gas & Electric Co. The plant will be enlarged.

Lebanon, Ohio.—The Elbingeo-Meiss Shoe Manufacturing Co., has been incorporated, capitalized at $50,000. E. H. and K. M. Elbinger and Nathan and Isaac Meiss are the incorporators.

Piqua, Ohio.—Plans are being revised for a manufacturing plant addition, to be constructed on Clark and South Ave., for the Wood Shovel & Tool Co., to cost $35,000.

Urbana, Ohio.—A large glass manufacturing plant will be built in Urbana, Ohio, by the Eagle Glass Co., which has been incorporated with a capital stock of $75,000. John F. Holland, of Noblesville, Ind., and others are interested.

Toledo, Ohio.—Schenk & Williams, 519 Arcade Building, Dayton, Ohio, will be ready for figures about Oct. 20 for a light manufacturing building for the Toledo Factory Building Co. Oost, $400,000.

Indianapolis, Ind.—The Roberts Foundry Co., Indianapolis, has been incorporated to do a general foundry business. The company is capitalized at $10,000. The directors are: W. H. Roberts, Emerson Davis and Elmer F. Wetzel.

Croswell, Mich.—The Port Austin Canning Co., Port Austin Mich., will soon erect a branch factory at Croswell, Mich.

Detroit, Mich.—The Breed Manufacturing Co., Detroit, will in all probability erect a site in Bay City, Mich.

+Detroit, Mich.—Mildner & Eisen, 1018 Hammond Bldg., Detroit, have awarded the contract for a 4-story and basement brewery cellars, 80 × 60 ft., for the Ekhard and Becker Brewing Co., 482 Orleans St. to H. SCHAEFER, 118 Macomb St.

+Varney & Winter, 58 Equity Bldg., Detroit, have awarded the following contracts for the 4-story automobile factory, 69 x 536 ft. for the Metzger Motor Car Co., Milwaukee Ave. Structural iron to the DAIGLE-STEGER IRON WORKS, Congress and Fourth St.; masonry to G. A. VIVIER, 479 Forest Ave. West; carpentry to T. MERCIER, 223 Beecher Ave.; steam heating and plumbing to J. J. DOYLE, 51 Gates St.

Saginaw, Mich.—Cowles & Mutcheller, 5 Chase Bldg., will soon take figures on a 4-story and basement cold storage warehouse, 90x74 ft. for the Cornwell Beef Co., Thompson & Franklin Sts. Building to be of reinforced concrete construction. Cost, $35,000.

+Cowles & Mutcheller, 5 Chase Bldg. have awarded the contract for the 2-story and basement factory for the Modart Corset Co., to LEIDIEN & STEELE.

Cairo, Ill.—The Peerless Feed Co., a recently incorporated firm, with a capital stock of $10,000, will soon begin the erection of a warehouse at the Cairo Milling Co.'s plant, 21st St. and the Big Four tracks. The incorporators of the company are W. H. Sutherland, J. B. Wenger.

Chicago, Ill.—G. A. Dick is preparing plans for a bakery building for Schiffler Bros., 1116 Richards St. The building is to cost $100,000.

Minneapolis, Minn.—The Minneapolis Milk Co. will make repairs to its machine and paint shop and barns. The cost is estimated at $25,000. C. A. Berrgeo, Sykes Bldg., is Arch.

Hastings, Neb.—Plans are being prepared by Burd F. Millen, Paxton Bldg., Omaha, for the erection of a $20,000 laundry building.

Fort Smith, Ark.—The Western Wheelbarrow & Manufacturing Co., Kansas City, Kan., will erect mill construction buildings to cost $25,000. T. G. Dade is Pres.

Aldridge, Tex.—The lumber mill of the Aldridge Lumber Co. at this place, which was recently destroyed by fire, entailing a loss of about $60,000, will be rebuilt. The new mill will have a much larger capacity than the one destroyed.

Brownwood, Tex.—The Brownwood Ice & Fuel Co. will rebuild its ice plant which was destroyed by fire a few weeks ago. The plant will have a daily capacity of 70 tons.

El Paso, Tex.—The Southwestern Portland Cement Co. will make improvements to its plant here at a cost of $12,000, in addition to the large water purification plant that it is installing.

Rio Hondo, Tex.—The Rio Hondo Gin Co. has been formed for the purpose of installing a cotton gin here. The incorporators are F. M. Paul, Edward H. Smith and Alba Heywood, all of San Benito.

Texarkana Tex.—The window glass factory of the Texas Glass Co. at Texarkana is to be nearly doubled in capacity. R. M. Patterson is Mgr.

Waco, Tex.—The Business Men's Club is promoting the establishment here of a large factory for the manufacture of overalls and working clothes. The factory will start with 100 machines.

Waco, Tex.—J. G. Warfield has promoted the organization of a company which will erect a factory here for the manufacture of a stalk-cutting machine. About $100,000 will be invested in the enterprise, it is stated.

Wichita Falls, Tex.—The Chanute Window Glass Co. is reported to have completed arrangements for the erection of a large glass factory here.

Oklahoma City, Okla.—The Central Foundry Co. will enlarge its plant, involving an expenditure of about $35,000. Eugene G. Baker is Vice-Pres.

Deming, N. Mex.—The Meerschaum Co. of America contemplates establishing a factory here for the manufacture of pipes and other articles out of meerschaum. It owns a large deposit of meerschaum, situated 28 miles from Silver City, N. Mex. Theodore W. Osterheld is Ch. Engr.

Seattle, Wash.—A raw silk manufacturing plant will be erected by Japanese capitalists. The company will be known as the Fukushima Raw Silk Manufacturing Co. The capital stock is $1,000,000.

Marshfield, Ore.—The shingle mill belonging to James Allen was recently destroyed by fire. The loss was about $15,000. The plant will be reconstructed.

Los Angeles, Cal.—The Clive Arms & Mfg. Co. has been incorporated here for the purpose of erecting a $75,000 plant for the manufacture of special target rifles and several light hardware articles. The machinery and equipment will cost $40,000. Mr. A. A. Clive is Pres. and Joseph Singer is Vice-Pres.

The L. C. Trent Engineering Co. has been incorporated with a capital stock of $10,000. The incorporators are L. C. Trent, F. H. Payton and J. D. Meredith.

San Francisco, Cal.—The Board of Public Works will receive bids until Sept. 20 for the laundry plant, the refrigerating plant, the sterilizing plant and the equipment of the power-house at the City and County Hospital. The cost has been estimated as follows: Laundry plant, $15,000; refrigerating plant, $15,000; sterilizing plant, $5,000; boilers for power-house, $30,000; turbines and generators, $20,000; steam, gas and water piping for power-house, $20,000.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

River Improvement.—Newton, Mass.—It is proposed to improve the Charles River between the Galen St. bridge in Watertown and the Concord St. bridge near Newton, Lower Falls. One plan is to dredge the river for several miles; the other, to maintain the level of the water in the river at a high elevation, necessitating the use of other power than that furnished by the river on the part of the mills. Charles E. Hatfield is Mayor of Newton.

Ferry Landing, Repairs, Etc.—Boston, Mass.—The City Council on Aug. 22 passed an appropriation bill for $550,850 providing for improvements as follows: $52,000 for repairs on ferry landing, $41,700 for Deer Island improvement; $20,000 for improvements in Dewey Beach and Charlestown Heights $20,000 for improvement on Governors Island; $28,500 for Copp's Hill Playground shelter.

***Bulkhead.**—Providence, R. I.—Bids will be received by the Board of Contract and Supply until 2.15 p. m., Oct. 3, for the construction of a bulkhead wall or river wharf, 1,400 ft. more or less, along the harbor line from Fields' point northerly. Henry Fletcher is Mayor.

***Dredging, Etc.**—Buffalo, N. Y.—Bids for dredging in North (Buffalo River) Entrance Channel, removing rock shoals outside North Entrance, and removing the Watson Elevator site, Buffalo Harbor, will be received until 11 a. m., Oct. 2, by Lt.-Col. J. G. Warren, Corps Engrs., U. S. A., Buffalo.

Seawall, Wingwall.—New York, N. Y.—Mayor W. J. Gaynor, on Aug. 21, approved the ordinances providing for the issue of corporate stock for improvements in Queens Borough as follows: $35,000 for a sea wall on Willets Point Road, Third Ward; $5,000 for a concrete wing wall along culverts and repairing and extending rip-rap on Jackson Ave., between Shell Road and Flushing Bridge, Second Ward; $30,000 for concrete culvert to replace present bridge at Nortons Creek, Edgemere; $20,000 for concrete wall on Shore Road, between Hoyt and Woolsey Aves, First Ward.

+Subway, Retaining Wall. — New York, N. Y.—The contract for constructing the westerly subway and the Bayard St. retaining wall on the Manhattan Plaza of the Manhattan Bridge has been awarded by the Commissioner of Bridges, to the RYAN & PARKER CO., 165 Broadway, at $134,500. Bids were opened on Aug. 10. List of bidders noted on Aug. 24.

Dredging, Rock Removal. — New York, N. Y.—Bids will be received until noon, Oct. 7, by Col. William T. Rossell, Corps Engrs., U. S. A., Army Bldg., 39 Whitehall St., New York, for dredging in Raritan Bay, N. J., and for removing rock, hardpan, gravel, and boulders from Arthur Kill, N. Y., and N. J.

Tires and Wire.—New York, N. Y.—Bids will be received by Joseph Johnson, Fire Comr., until 10.30 a. m., Sept 13, for furnishing and delivering rubber tires and wire.

Storage Sheds.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Sept. 14, for labor and material required for the erection and completion of the westerly half of the storage sheds and the west manure pit in the north meadow storage yard in Central Park.

Fire Alarm Telegraph.—New York, N. Y.—Bids will be received by Joseph Johnson, Fire Comr., until 10.30 a. m., Sept. 18, for furnishing all the labor and materials required for an extension of the underground system of the fire alarm telegraph.

Elevators.—Philadelphia, Pa.—Bids were received as follows on Aug. 25 by the Acting Director of Wharves, Docks and Ferries for four new electric elevators at the Vine St. pier: Supplee Elevator Co., $14,827; Otis Elevator Co., $14,914; Albro-Clem Elevator Co., $15,558.

Scows.—Philadelphia, Pa.—The city has awarded the contract for constructing two scows for the municipal dredging plant to I. S. BUSHEY, of Brooklyn, N. Y., at $9,900 each.

+Plaza Improvement.—Philadelphia, Pa.—Henry Clay, Director of Public Safety has the contract awarded to DANIEL S. BADER for improving the plaza from Oregon Ave. to Bigler St., at $124,000.

Submarine Vessels.—Washington, D. C.—Bids were received as follows on Sept. 1 by the Secretary of the Navy, Washington, for the construction of four submarine torpedo vessels, Nos. 36 to 39: Lake Submarine Boat Co., Bridgeport, Conn., boats to be constructed at Bridgeport, at the rate of one in 22 months, and one every month thereafter: Type A7, 485 tons, one $450,000;two $445,000 each; three, $442,000; four, $440,000. Type E, 510 tons, one, $431,500; two, $421,500 each; three, $419,500; four, $416,500; Type E2, 500 tons, one, $446,500; two, $436,500 each; three, $434,000; four, $431,500; Type E, 506 tons, one, $443,500; two, $438,500 each; three, $436,000 four, $433,500; Type E3, 506 tons, one, $433,500; two, $423,500; three, $421,000; four, $418,500; Type E4, 506 tons, one, $430,500; two, $420,000; three, $417,500; four, $415,000; Type E5, 506 tons, one, $445,500; two, $438,000; three, $432,500; four, $430,000; Type F, 518 tons, one, $446,000; two, $436,000; three, $433,500; four, $431,000; Type F1, 518 tons, one, $461,000; two, $451,000; three, $448,000; four, $446,000; Type F2, 515 tons, one, $448,000; two, $438,000; three, $435,500; four, $433,000; Type F3, 515 tons, one, $463,000; two, $453,000; three, $450,500; four, $448,000; Type F4, 515 tons, one, $445,000; two, $435,000; three, $432,500; four, $430,000; Type F5, 515 tons, one, $460,000; two, $450,000; three, $447,500; four, $445,000. Electric Boat Co., 11 Pine St., New York, at rate of one in 24 months; and one every month thereafter. At works of Union Iron Works Co., San Francisco, Cal., or Moran Bros., Seattle, Wash., 525 tons, one, $550,000; two, $531,000 each; three, $514,000; four, $498,000; works of Fore River Shipbuilding Co., Quincy, Mass., one, $524,000; two, $509,000; three, $496,000; four, $485,000; alternate: one at Fore River, $483,500; three on Pacific Coast, $503,000 each; two at Fore River, and two on Pacific Coast, $515,000 each; one at Fore River, $496,000; two on Pacific Coast, $523,000.

Dredging.—Washington, D. C.—Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., 920 17th St., Washington, will receive bids until Sept. 17 for dredging in the James River, Va.

+Torpedo Boat Destroyers.—Washington, D. C.—The Secretary of the Navy awarded contract on Aug. 29 for the construction of eight fuel-oil burning torpedo boat destroyers, as follows: Four, to the WILLIAM CRAMP & SONS SHIP & ENGINE BLDG. CO., Philadelphia, Pa.; two, to the BATH IRON WORKS, Bath, Me.; one, to the NEW YORK SHIPBUILDING CO., Camden, N. J.; one, to the FORE RIVER SHIP & ENGINE BLDG. CO., Quincy, Mass. Bids were opened on Aug. 7. List of bidders noted on Aug. 10.

+Dredging.—Norfolk, Va.—Bids were received on Aug. 2 by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., Norfolk, for about 675,000 cu. yds. of dredging in the south branch of Elizabeth River. The contract has been awarded to the ATLANTIC GULF & PACIFIC CO., Park Row Bldg., New York, at 11.3 cts. per cu. yd. Other bidders were: Miner Engineering Co., Washington, D. C., 12.4 cts; Maryland Dredging & Contracting Co., Fidelity Bldg., Baltimore, Md., 14.5 cts.

***Lockkeepers' Houses.**—Wheeling, W. Va.—Bids for building two 2-story, 8-room lockkeepers' houses at Dam No. 15, Ohio River, will be received until 11 a. m., Oct. 2, by Maj. F. W. Alstaetter, Corps Engrs., U. S. A., Wheeling.

Boats.—Vicksburg, Miss.—The Mississippi River Commission, Third District, Vicksburg, on Aug. 15, received the following bids for constructing and delivering three quarter boats: Thomas M. Favre, 1718 25th Ave., Gulfport, Miss., $13,100 each, 180 days, at Vicksburg; alternate, $12,700 each, 180 days, at Gulfport, Miss.

Mattress Ways.—Vicksburg, Miss.—The Mississippi River Commission, Third District, on Aug. 15 received the following bids for furnishing and delivering one set of mattress ways: Thomas M Favre, 1718 25th Ave., Gulfport, Miss., $14,425, 120 days, at Vicksburg; alternate, $13,625, 120 days, at Gulfport, Miss.; Gulfport Creosoting Co., Gulfport, $18,200, 100 days, at Vicksburg; alternate, $17,850, 90 days, at New Orleans, La.

+Wharf.—New Orleans, La. — The Board of Port Commissioners on Aug. 28 awarded the contract to W. M. WREN, 1723 Iberville St., New Orleans, for the construction of the Press St. wharf at 6½ cts. per ft. for driving piles; $10.50 per M. ft. B. M., framing and placing all lumber; $35 per anchor, complete in place.

Earthwork.—Memphis, Tenn. — Bids were received on Aug. 21, as follows, by the Mississippi River Commission, office of Maj. Clarke S. Smith, Corps Engrs., U. S. A., Memphis, for constructing about 466,000 cu. yds. of earthwork in Upper and Lower St. Francis and White Rivers Levee Districts: George L. Lacey & Co., Arkansas City, Ark., 134,000 cu. yds., near Birds Point, Mo., 15.73 cts.; Lowrance Bros. & Co., Memphis, 123,000 cu. yds., near Wilson, Ark., 14.70 cts.; Roach & Stansell, of Memphis, 102,000 cu. yds., at West Memphis, 17.9 cts.; Roach & Stansell, 128,000 cu. yds., below Helena, 16.80 cts.

Pneumatic Tube Service.—Cincinnati, Ohio.—Only one bid was received, as follows, on Aug. 31, by the Second Assistant Postmaster General for the construction and operation of pneumatic tube service, 30-in. tube, in the city of Cincinnati, for the term ending June 30, 1915: Universal Pneumatic Transmission Co., Chicago, Ill., Dec. 2, 1911, to June 30, 1912, $13,393 per mile, thereafter at an annual rental of $17,000 per mile.

Jetties, Wall.—Cleveland, Ohio.—Bids will be received by the Board of Commissioners of Cuyahoga County, until 11 a. m., Sept. 20, for the construction of bridge work per Report No. 2862, jetties, Rocky River, near Mastick Bridge; Report No. 2863, retaining wall, Rocky River, below Mastick Bridge Form of contract and specifications are at the office of Frank R. Lander, County Surv. John F. Goldenbogen is Clk.

Crushed Stone.—Sandusky, Ohio.—The Board of County Commissioners of Erie County will receive bids until 1.30 p. m., Sept. 25, at Sandusky, for furnishing and delivering 2,826 tons of crushed stone for the improvement of 6,300 ft. of the Milan Road, beginning at the intersection of the Milan Road with the Baltimore & Ohio R. R. and running southerly to the intersection of the road with Perkins Ave. Plans, specifications, descriptions and bills of material may be seen at the office of John Deist, County Audr.

***Harbor Work.**—Michigan City, Ind.—Bids were received as follows on Aug. 29 by Lt. Col. George A. Zinn, Corps Engrs., U. S. A., Chicago, Ill., for timber superstructure and pile protection in harbor at Michigan City: Fitz Simons & Connell Dredge & Dock Co., Chicago, Ill., $31,337; Great Lakes Dredge & Dock Co., Chicago, $26,968.

***Timber.**—Detroit, Mich.—Bids for furnishing and delivering about 3,580,000 ft. B. M. of timber, for use at St. Marys Falls Canal, Mich., will be received until 3 p. m., Oct. 16, by Col. C. McD. Townsend, Corps Engrs., U. S. A., Jones Bldg., Detroit.

Breakwater.—Detroit, Mich. — Bids for constructing breakwater at Biddle Point, Mackinac Island, Mich., opened at Aug. 28, by Col. C. McD. Townsond, Corps Engrs., U. S. A., Detroit, were as follows: T. L. Durocher, Sault Ste. Marie, Mich., $1.145 per ton; Great Lakes Dredge & Dock Co., Chicago, Ill., $1.15; The Green Stone & Quarrying Co., Sawyer, Wis., $1.50; The Inland Waterways Co., Ashtabula, Ohio, $1.62.

+*Channel Excavation.—Chicago, Ill.—The Board of Trustees of the Sanitary District of Chicago, has awarded the contract for Contract-Section 4 of the Calumet-Sag Channel to the FORSCHNER & SEXTON CO., Mt. Vernon, N. Y., at $306,679. List of bidders noted on Aug. 24.

+Levee.—Havana, Ill.—[illegible] were received on Aug. 24 by the [illegible]issioners of the Bottom Drainage [illegible] Levee District for 62,000 cu. [illegible] levee work, etc. The contra[illegible] been awarded to G. A. & R. WILLIAMS, of Chicago, Ill., a[illegible]ts. per cu. yd.

Drainage District Work.—[illegible]nkakee, Ill.—Bids will be received [illegible] the Commissioners of the McGill[illegible] Special Drainage District of K[illegible]ee and Will Counties until Sept. [illegible] or constructing the entire prop[illegible] work of the district and for the co[illegible]ction of all open ditches and all d[illegible] of any branch thereof. John B[illegible]geole is County Clk.; William H. Z[illegible] is Engr., Joliet.

+Ditch.—Jefferson, Iowa [illegible]e County Board has awarded the [illegible]ract for the tile for the construct[illegible] of Ditch No. 53 to A. S. TANNER, [illegible]fferson, at $10,073, and to W. S[illegible]EN, of Scranton, for constructi[illegible] $4,224. The contract for Ditch No. [illegible] has been awarded to WILLIAM CO[illegible] at $7,018, and for tile to A. S. [illegible]NER, at $10,248.

Ditch.—Fairmont, Minn.[illegible] P. Edwards, County Audr., will [illegible]ive bids until 1 p. m., Sept. 12, [illegible] the construction of Judicial Ditch [illegible] 17. Estimated cost, $243,000.

Ditch.—Olivia, Minn.—J[illegible] Johnson, County Audr., will receive [illegible] until 2 p. m., Sept. 15, for the con[illegible]ction of Ditch No. 47.

Ditch.—Willmar, Minn.—John Feig, County Audr., will receive bids until 10 a. m., Sept. 15, for the construction of Judicial Ditch No. 6, about 83,145 yds. of excavation, and 27,[illegible] ft. of 6 to 14-in. tile. Estimated cost, $14,987.

Patrol Boat.—Duluth, Minn.—Bids were opened on Aug. 28 by Maj. Francis R. Shunk, Corps Engrs., U. S. A. Duluth, for the construction of the harbor patrol boat "The Patrol," as follows: Racine Boat Co., Racine, Wis., $13,950; Moore Boat Works, Wycota, Minn., $16,050.

+Ditch.—St. Paul, Minn.—The contract for constructing State Drainage Ditch No. 95 in Roseau and Kittston Counties has been awarded to WILLIAM SHERWOOD, of Alexandria, at $167,645. Bids were opened on Aug. 21.

Cement.—Leavenworth, Kan.—Bids will be received by R. V. LaDow, Supt. of Prisons, Dept. of Justice, Washington, D. C., until 10 a. m., Sept. 11, for furnishing Portland cement f. o. b. cars at the U. S. penitentiary, Leavenworth.

+Drainage Canal.—Watertown, S. Dak.—The contract for the construction of the drainage canal has been awarded by the city to the STOVER CONSTRUCTION CO., of Watertown, at $11,000.

Drainage District.—Little Rock, Ark.—Lund & Hill, Consult. Engrs., of Little Rock, it is reported, have completed preliminary surveys for the Fourche Drainage District. The territory covered extends from a point opposite Mablevale, west of the city, to the lower mouth of Fourche, opposite Wrightsville, on the Arkansas River, covering a total area of over 50 sq. miles. Contract may be awarded about Jan. 1.

+Dredging, Cofferdam, Etc.—Seattle, Wash.—Maj. J. B. Cavanaugh, Corps Engrs., U. S. A., Seattle, on Aug. 15, awarded the contract for dredging, cofferdam, etc., at Lake Washington, to the PUGET SOUND BRIDGE & DREDGING CO., of Seattle. List of bidders noted on Aug. 17.

Stone.—Portland, Ore.—Bids for stone for jetty construction at the mouth of the Columbia River, Oregon and Washington, were received by Maj. J. F. McIndoe, Corps Engrs., U. S. A., Portland, on Aug. 19, as follows: (a) Quantities of stone bidders propose to furnish, ton of 2,000 lbs., Class A; (b) same, Class B; (c) same, Class C; (d) minimum total; (e) prices per ton of 2,000 lbs.; (f) total amount: Columbia Contract Co., Portland, (a) 126,000, (b) 216,000, (c) 108,000, (d) 450,000, (e) $1.12, (f) $504,000 (recommended for acceptance); Star Sand Co., Portland. (c) 135,000, (d) 135,000, (e) 94 cts., (f) $126,900.

Stone.—Portland, Ore.—The bid of the Columbia Contracting Co., of Portland, has been recommended for acceptance for furnishing 450,000 tons of stone f. o. b. Fort Stevens, Ore., for jetty construction in connection with the improvement of the Columbia River. The company bid $1.12 per ton of 2,000 lbs., or a total of $504,000.

***Jetty Extension.**—Portland, Ore.—Bids will be received until 11 a. m., Oct. 2, for constructing a receiving wharf and extending jetty at mouth of Sinslaw River. Information may be obtained from Maj. Jay J. Morrow.

Scenic Railway.—Longbeach, Cal.—Thos. W. Prior, of the Pacific Coast Production Co., has asked the city for permission to erect a scenic railway 1,000 × 360 ft., here. Estimated cost, $100,000.

Steel Rope.—Los Angeles, Cal.—The Board of Public Works will receive bids until 2 p. m., Sept. 8 for furnishing to the city 2,500 ft. of 1-in. and 9,000 ft. of 1½-in. extra cast steel rope. Horace B. Ferris is Secy.

Docks and Wharves.—San Diego, Cal.—E. M. Capps, City Engr., is preparing plans for the municipal docks and wharves to be constructed in San Diego Harbor. Estimated cost, $1,000,000.

(Continued on 120.)

CURRENT PRICES OF ENGINEERING MATERIALS

Supplement to ENGINEERING NEWS, appearing in the First Issue of Every Month. New York, September 7, 1911.

PRICE CHANGES AND THE BUSINESS OUTLOOK.

Conditions are not nearly as bad as they are portrayed or the interviews emanating from Wall Street sources would lead one to believe. Mr. J. A. Farrell, President of the United States Steel Corporation, says: "The country seems impregnated with pessimism. The unfilled orders of this company on August 1st showed 3,584,000 tons. Since August 1st new business has been freely offered, and, notwithstanding shipments in August have been large, the bookings up to August 31st show a fair increase. The unfilled tonnage on the books of the American Bridge Co. is now 15% larger than at any time since the organization of the corporation."

Building operations all over the country are good. Reports to our Construction News department show a great deal of activity in all kinds of municipal and government construction, in fact, everything, except railway work. The work, however, is largely made up of small jobs. The larger enterprises seem to be awaiting further development. Bank clearances all over the country are excellent. The unsatisfactory feature of trade is principally the poor crop reports, but the grain trade has not been unduly excited by these pessimistic reports and prices for important commodities are lower than a year ago.

Prices on the Stock Exchange declined steadily and continually during almost the entire month of August. Part of this was caused by the selling of securities held by European interests on acount of political disturbances and, to some extent, because of the uncertain labor outlook in the United States. It is true that there has been a serious falling off in net earnings by the Northwestern roads, but the low prices have already discounted a possible reduction in dividends. The holding of securities is more diversified than ever before, a marvelous distribution having been made in the last decade.

Labor troubles in the railway world are widespread. The trouble commenced in the West and is rapidly working its way Eastward.

More than one railroad, while talking pessimistically through its official spokesman, is moving more tons of freight and carrying more passengers than ever before. The sound financial position of the country and the absence of rampant speculation in any line have laid a firm foundation for business which will not be easily disturbed. In fact, the country seems to have had a bad attack of the blues rather than any serious difficulty.

The dissolution of the Standard Oil Company has been accomplished with little difficulty and no disturbance to business.

The production of coke and anthracite pig iron during August was, according to the figures of "The Iron Age," 1,926,636 tons compared with 1,796,068 tons last month. The gain compared with July was due to the activity of the steel industry at the expense of the foundry trade.

The machine tool trade is especially active, not only for new, but second-hand tools.

Railway earnings are increasing. The "Chronicle" figures an increase of 3.38% in gross earnings on 44 roads for the third week in August.

LABOR.

Labor and capital seem to be lining up for a conflict. The shopmen on the Harriman lines have presented demands which manifestly cannot be granted. On the Illinois Central and some of the Northwestern railroads and the Lackawanna there is also unrest. In the light of experience in the past, it is difficult to see how such a general strike would succeed. There is no doubt that there are gross inequalities of compensation in many lines of railroad work—perhaps more than in any other—but the present is not the most propitious time to demand an increase amounting to about 30%. Statistics have recently been issued showing that the employees of the railways of the United States have decreased 90,000 in a twelve-month. The lines on which these decreases occurred were not stated, but they cannot be important eastern lines, for these are adding to their forces rather than curtailing.

The marble workers in New York are still out, and this strike has extended to other cities without tying up any large quantity of building.

The strike in Great Britain has not been settled to the satisfaction of all parties, although the worst apparently is over. The general tie-up there did not last any length of time.

In New York, laborers are in demand and there are more jobs awaiting men than there are men to fill them. Much of this work is for good roads improvement, the Aqueduct and the Barge Canal, although quite a little factory work is in sight.

Many lumber mills in the southwest are closed on account of labor troubles. At no time in the last decade have the larger employers of labor been less afraid to make an issue than they are at present. We have received authentic information that one company employing 10,000 men would not be unwilling to have its men walk out at such a time, for the business depression has left this company with a large stock of unsold goods on hand, and the company believes the trouble cannot be much longer postponed.

Recent rains in New England permit of the opening of many factories.

CEMENT, LIME AND BRICK.

Cement.—Prices are lower. Cement in New York is quoted at $1.38 to $1.43 per bbl. and in some quarters it is probable that cement could be obtained at $1.33. It can be said on authority that some of the largest mills are not accepting business for New York delivery at less than $1.43. The ruinous practice of the cement industry in the Eastern territory shipping to Western consumers and a counter movement by the Western mills is deplorable. The consumer does not benefit, the manufacturers certainly do not and the railroads are the only ones who derive any advantage. There was some development in the volume of business about the middle of the month, but in the East consumption was curtailed during the last week on account of the unfavorable weather; since then the demand has been exceptionally active. We believe that a deep cut in the price of cement will bring business and if it were sufficiently long-continued it would be to the ultimate benefit of the trade. The hopes of some cement dealers have been sadly shaken for they believed that with the advent of the Morgan firm into the cement business there would be a more harmonious working and during the periods of depression curtailment would be practiced; such, however, has not been the case.

The price, as stated, in New York is $1.33 with an allowance of 40 cts. for bags returned. In Boston $1.57 is quoted for wooden bbls., the same price in cloth sacks with an allowance of 40 cts. for bags returned. In that market, cement in paper bags can be had at $1.37.

Imported cement is unchanged at $2.42 for Alsen's and $2.43 for Dyckerhoff's.

Natural Cement.—Business is dull and quotations continue unchanged at 80 cts. per bbl. in New York and $1.05 in Boston.

Brick.—The market continues quiet and prices are slightly lower. The brick makers have started a campaign to demonstrate the quality of the brick for fireproofing. Hudson River common brick are sold at $5.87½ to $6.25 per thousand delivered in New York. These prices represent a decline of 12½ cts. compared with last month.

White enameled brick are held at the unchanged price of $60 per thousand for the American size (8¾ × 2¼-in. enameled surface by 4⅛-in. bed), and $70 to $75 for the English size (9 × 3-in. enameled surface by 4½-in. bed). These prices are f. o. b. Perth Amboy.

Plaster Blocks.—For large lots, prices are as follows:

	Weight, lbs. per sq. ft.	Price, cts. per sq. ft.
2-in.	7	6
3-in.	8½	6½
4-in.	11	7¼

These blocks are made 32-in. long by 13½-in. wide, containing 3 sq. ft. of surface. The 2-in. blocks are solid, but the others are hollow.

Plaster boards, ⅝-in. thick, are 16 cts. per sq. yd.

Lime.—The following prices are for lots of 500 bbls. delivered in New York City: State common, per bbl., 75 cts.; Rockland-Rockport, common, 92 cts.; Rockland-Rockport special, 300 lbs., $1.37; finished, 300 lbs., $1.47; finishing, 200 lbs., $1.02, and 350 lbs., $1.62; New Milford, $1.30.

BUILDING STONE.

Blue-Stone.—Business is fairly active and there is sufficient stone at the old price of 18 cts. to supply the present demand, which is not especially large.

For delivery, either alongside of dock or f. o. b. cars, New York, prices are without change, as follows: Flagging, 6 cts. per sq. ft. per in. of thickness; flagging, 2½ to 3-in. thick, that will pass New York City specifications, 18 to 19 cts. per sq. ft. Sewer bottoms, 5 ft. sq. and 3-in. thick, are sold at 25 cts. per sq. ft. Curbing, 5 × 16-in., is 40 cts., and 5 × 25-in., by 5-in. thick, is 60 cts., and 6-in. thick is 65 to 70 cts. per lin. ft., 5 × 20-in. by 5-in thick is 50 cts.

Promiscuous shapes of building and foundation stone sell at 70 to 75 cts. per cu. ft.

Granite.—The strike of the granite cutters in New England continues to hold up shipments on some of the larger works, but as a general rule granite can be had as needed and there is not an exceptionally large demand for it. Prices continue unchanged. Run of quarry can be had at 40 to 45 cts. per cu. ft. Pink Milford granite is without change at $1 per cu. ft. for promiscuous shapes.

Limestone.—Prices are without change at 85 cts. per cu. ft., delivered alongside of dock, New York. Dressed stone is quoted at $1.25 to $1.50 per cu. ft.

Sandstone in the rough is 80 cts. to $1 per cu. ft.

Interior Stone.—Slate flooring, 1-in thick, can be had at 20 cts. per sq. ft. for the common or ribbon variety. Clear black sells at 35 to 40 cts., and the same price is asked for Vermont. A combination of slate and marble flooring is 30 cts. per sq. ft.

Marble floor, finished ready to lay, of Vermont marble, is 50 to 70 cts. per sq. ft.; Italian marble, 70 to 90 cts. Tennessee marble can be had at 65 cts. Ordinary stair work, such as slate steps, are quoted at 24 cts. per sq. ft.

CRUSHED STONE, SAND AND GRAVEL.

Crushed Stone.—Building work is more active and the demand for stone is fairly satisfactory. The subway is not taking any large quantities of stone yet, but it seems assured that considerable stone will be used in this work another year. Roadmaking stone is in active demand.

Prices are as follows: For 1½-in. stone, 85 to 95 cts.; for ¾-in. stone, 90 cts. to $1. Screenings are likewise sold at the same price. These quotations are for full cargo lots of 500 cu. yds. delivered alongside of dock New York City. In Boston quotations are unchanged from last month as follows: ¾-in., 85 cts.; 1½-in. stone is 75 cts. and 2½-in. is 65 cts. These prices are f. o. b. quarry.

Sand.—The market continues steady and without change at 25 cts. per cu. yd. for full cargo lots, delivered alongside of dock, New York. For small quantities or in places where large quantities cannot be delivered, prices vary from 35 to 45 cts. per cu. yd.

White quartz sand is 60 cts. per cu. yd. and white quartz grit 75 cts. per cu. yd. All of these prices are for delivery alongside of dock, New York, and for full cargo lots of 500 yds.

In Boston sand sells at 35 cts. per cu. yd., to which is added the freight of about 50 cts.

Gravel.—The demand is somewhat better than a month ago but is not as large as last year, and the prices obtained by sellers are not very satisfactory, although they continue unchanged from last month at 75 to 85 cts. per cu. yd. delivered alongside dock, New York. These prices rule for full cargo lots of 500 cu. yds. White quartz roofing gravel is $1.25 to $1.35 per cu. yd.

IRON AND STEEL.

Conditions have materially improved. The following cheerful statement has been made and verified by Mr. J. A. Farrell, President of the United States Steel Corporation, to Engineering News:

"The unfilled orders as at August 1 showed 3,584,000 tons (exclusive of inter-Company business of 850,000 tons), a gain over June 30 of 225,000 tons. Since Aug. 1 new business has been freely offered and, notwithstanding shipments in August have been large, the bookings up to the 20th inst. (the latest date to which data has been compiled) show a fair increase.

"The steel producing plants of the corporation are operating about 78% of their capacity, while a number of the finishing departments of the various companies are operating 85%.

"The daily bookings of the corporation from Jan. 1 to Aug. 20 show an average increase of 7,750 tons, as compared with the same period in 1910.

"Specifications for prompt shipments in August are larger than for any previous month this year, and the outlook is all that can be desired.

"Rail orders are being placed slowly, but in sufficient quantity to gradually increase earnings. A total of about 20,000 tons is reported to-day. This includes the following orders for rails: Chesapeake & Ohio, 4,500 tons; Illinois Central, 9,400 tons, and the Texas & Pacific, 5,800 tons. Other orders coming in daily have swelled this to encouraging proportions.

"The unfilled tonnage on the books of the American Bridge Co., a most important subsidiary company of the Steel Corporation, is now 15% larger than at any time since the organization of the corporation. Prices are firm at $1.35 for structural material and fabricated material, with the market good. There is positively no cutting by this company, according to an official.

"The American Steel & Wire Co., another important subsidiary of the corporation, reports orders coming in at the rate of about 7,000 tons per day. This is better than any August for the past three years, and a gradual increase over the past few weeks. Prices for the product of this company are also firm, and the plants are operating between 75% and 78% of capacity.

"Several of the steel plants of the United States Steel Corporation, including the Homestead and New Castle works, are operating at 100%, with several others running between 80% and 85%. All plants of the Tennessee Coal & Iron Co. are working double shift and the books of the company show enough rail orders to keep them going at this rate for some time."

Mr. Farrell not only is optimistic about the steel outlook, but further states that should the railroads come in and buy their usual quantities that the company would be almost swamped with business.

Pig Iron.—While there have been no notable developments in the pig iron market during the month, foundry iron is somewhat easier. It is significant to note that furnace interests display little interest in sales and in fact are unwilling to sell for forward delivery except at full prices. The low prices which have prevailed for Southern iron have made it difficult for Northern furnaces to work up to the quantity they would like, even at these prices, but a recent sale of a large quantity of iron to a Canadian interest by Buffalo furnaces has made a favorable impression. The iron foundries in New England are buying freely and scattered reports from small foundries indicate that business there has been exceptionally active. One reason for the better business in New England has been a decided improvement in the machinery trade, which is probably more active than at any time in several years. Some foundries in New England are selling more castings than ever before. Production is probably less than consumption and the surplus stocks are being cleaned up.

For lots of 100 gross tons and over f. o. b points named, quotations are as follows:

Cincinnati Southern foundry No. 1, $13.75 to $14; Southern foundry No. 2, $13.25 to $13.50; Southern foundry No. 4, $12.50 to $12.75. Philadelphia, Eastern Pennsylvania No. 2X foundry is $15 to $15.25, and Eastern Pennsylvania No. 2 plain foundry, $14.75 to $15. In Chicago, Northern foundry No. 2 is $14.50 to $15; Southern foundry No. 2, $14.35 to $14.60. In Pittsburgh, Bessemer iron is $15.90, and basic $13.90. These quotations include the 90 ct. freight rate from the Valey to Pittsburgh. In New York, Northern foundry No. 2X is $15 to $15.25; Southern foundry No. 2, $14.25 to $14.75. In Birmingham the price of No. 2 Southern is unchanged at $10.

Steel Rails.—With all the talk of curtailment by the railroads and the absence of few large orders, it is of interest to note that the manufacturers of rails believe that at least 3,000,000 tons of rails will be rolled this year. Of course, such a tonnage is not the largest on record, but it is excellent. Recent sales of rails included 4,500 tons to the Chesapeake & Ohio, 9,500 tons to the Illinois Central, 6,000 tons to the Texas & Pacific, 2,200 tons for the Southern Railway to a Southern mill. The Grand Trunk is in the market for about 10,000 tons of rails for delivery in New England. The rail trade is in such a position that should there be any sudden increase in railway work it will be bound to feel the effects, for while a large quantity of rails have been sold, some roads have purchased only a limited tonnage.

Quotations are as follows for lots of 500 tons and over: Standard sections, 50 to 100 lbs. per yard, 1.25 cts. per lb.; 40 to 45 lbs., 1.16 cts.; 30 to 35 lbs., 1.20 cts.; 16, 20 to 25 lbs., 1.21 cts., and 12-lb. rails, 1.25 cts. Relaying rails are higher in New York, at $20.50 to $21.50 per gross ton. In Chicago, standard sections, subject to inspection, have had a sharp advance and are now quoted at $24.

Track Supplies.—Business is only fair and the largest demand is for spikes.

Quotations are unchanged, at $1.60 per 100 lbs. Pittsburgh. In Chicago prices are likewise without change, at $1.65 to $1.70. The extras are unchanged and repeated from last month as follows:

Railroad Spikes.		Cents.
3, 3½, 4, 4½ and 5 × ½	Extra	.10
3½, 4 and 4½ × 7/16	Extra	.20
3, 3½, 4 and 4½ × ⅜	Extra	.30
2½ × ⅜	Extra	.40
2½, 3 and 3½ × 5/16	Extra	.60
2 × 5/16	Extra	.80

Boat Spikes.		
⅜ in. square, 8 to 16 in. long	Extra	.15
⅜ in. square, 2 to 16 in. long	Extra	.15
½ in. square, 6 to 16 in. long	Extra	.15
7/16 in. sq., 6 to 12 in. long	Extra	.20
⅜ in. square, 4 to 12 in. long	Extra	.30
5/16 in. sq., 4 to 8 in. long	Extra	.45
¼ in. square, 4 to 8 in. long	Extra	.75
¼ in. sq., 3 to 3½ in. long	Extra	1.00

Structural Steel.—Never in the history of the country has the structural steel trade been as active as at present. With a multiplicity of fabricating shops all over the country seeking business, some extremely low contracts were placed. In one instance, a rather small building, the steel work was sold at $60 a ton. These small shops seeking business have unearthed a great number of small contracts and in consequence there has never been the amount of fabricated work on hand or in prospect as at present. The American Bridge Co. is working to about 16% larger capacity than ever before and 1911 will probably show a new record for tonnage as far as structural steel work is concerned. Some of the contracts for the New York Subway have been re-advertised, and others have been put in force. While the steel for this work will not be wanted for some time to come, there will be a large tonnage when the work gets under way. The structural steel trade in Chicago has been exceptionally active on account of an ordinance which went into effect Sept. 1, limiting the height of all buildings to 200 ft. Among the recent contracts closed have been 5,300 tons for the Northwestern Mutual Life Building at Milwaukee, 7,200 tons for the Municipal Bridge at St. Louis, 14,000 tons for the Kansas City Terminal Station. The New York Central unexpectedly closed for 5,000 tons for the Grand Central Terminal. Quotations are being firmly maintained on a basis of 1.35 cts. for shapes.

The following quotations are named in cts. per lb., f. o. b. Pittsburgh: I-beams and channels, 3 to 15-in., 1.35 to 1.40 cts.; over 15-in., 1.50 cts.; H-beams, over 8-in., 1.60 cts.; angles, 3 to 6-in., inclusive, 1.45 cts.; angles over 6-in., 1.50 cts.; zees, 3-in. and over, 1.45 cts.; angles, channels and zees under 3-in., 1.45 base and full extras; deck beams and bulb angles, 1.70 cts.; hand rail tees, checkered and corrugated plates, 1.75 to 1.90 cts.

Chicago store prices in cents per lb. are as follows: Angles, 3 to 6-in., 1.75 to 1.90 cts.; over 6-in., 1.85 to 1.95 cts.; I-beams and channels, 1.75 to 1.90 cts.

Cast-Iron Pipe.—Specifications on old contracts have been frequent during August and shipments of pipe have been large. New contracts have not been as active, but there has been a fair sprinkling of business. While there has been a good deal of work in New England and in the Northern States, the Southern States have made inquiries for relatively larger tonnages and on the Pacific Coast business has been especially brisk. Quotations are unchanged from last month and the market is steady.

Prices are as follows:

Birmingham, Ala., 4 to 6-in., $22; 8 to 12-in., $21; over 12-in., $20.

Chicago, 4-in., $25.50; 6 to 12-in., $24.50; 16-in., $24.

New York, 6-in., $21 to $22.

San Francisco, 4-in., $35; 6 to 12-in., $34.

Gas pipe is held $1 per ton higher in all markets.

Plates.—Car orders have been slow since the middle of the month, but during the first two weeks of August numerous orders were placed for cars and quite a few orders for steel passenger coaches. Locomotive orders have been few and the American Locomotive Co. has considerably less business on its books than a year ago. One large inquiry in the market is from the Missouri Pacific for 2,000 steel gondolas, 1,000 steel frame cars and 1,000 mixed cars. About 30,000 tons of plates will be required for four vessels for trade between the Atlantic and Pacific Coasts.

The base price of 1.35 cts. for wide plates continues: Plates ¾-in. thick, 6¼ to 100 ins. wide, 1.35 to 1.40 cts.; ¼ to 3/16 ins. thick, 1.45 to 1.50 cts.; 3/16 ins. and thinner, including No. 8 gage, 1.50 to 1.60 cts.; Nos. 8, 9 and 10 gage, 1.65 to 1.70 cts. All these prices are per lb. f. o. b. mill. In Chicago, store prices are 1.80 to 1.85 cts.

Old Materials.—The market is lower and there seems to be very little demand for scrap of any kind, although large consumers of scrap are apparently overstocked and have requested dealers to suspend shipments. For some classes of scrap the demand is only nominal. Foundry scrap is in better demand and in some quarters the following quotations are considered entirely too low. Prices in New York per gross ton are as follows:

Heavy - melting steel scrap	$10.25 to $10.50
No. 1 yard wrought, long	11.00 to 11.50
No. 1 yard wrought, short	10.00 to 10.50
No. 1 railroad wrought	12.75 to 13.25
Pipes and flues	10.00 to 10.50
Cast borings	6.00 to 6.50
Machinery cast, broken up	10.00 to 11.00
Stove plate	8.50 to 9.00
Malleable castings	10.50 to 11.00

In Chicago, the railroads have been selling scrap so rapidly that it has been difficult for the market to absorb the heavy offerings. Quotations are somewhat lower as follows:

	Per gross ton.
Re-rolling rails	$12.75 to $13.25
Heavy - melting steel scrap	11.00 to 11.50
	Per net ton.
Miscellaneous railroad wrought, No. 1	$11.00 to $11.50
Miscellaneous railroad wrought, No. 2	10.00 to 10.50
Machine shop turnings	6.25 to 6.75
No. 1 cast scrap	10.50 to 11.00
Pipes and flues	8.00 to 8.50
Railroad malleable	10.25 to 10.75
Agricultural malleable	9.25 to 9.75

In Pittsburgh the absorption of scrap by the mills has been large and there is not the heavy accumulation there as is noted in the Eastern markets. Quotations are as follows f. o. b. Pittsburg:

	Per gross ton.
Re-rolling rails	$13.50 to $13.75
No. 1 foundry cast	13.25 to 13.50
No. 2 foundry cast	12.75 to 13.00
Old grate bars	10.75 to 11.00
Car wheels	13.00 to 13.25

Roofing, Corrugated.—The demand is large and shipments during August were heavy. It is probable that the September shipments will likewise be heavy. At present there is no shortage of any size. Quotations are unchanged, as follows per 100 sq. ft. of roofing surface, in carload lots f. o. b. Pittsburgh: No. 28, painted, $1.40; galvanized, $2.55; No. 27, painted, $1.55; galvanized, $2.60; No. 26, painted, $1.65; galvanized, $2.65; No. 24, painted, $2.10; galvanized, $3.15; No. 22, painted, $2.60; galvanized, $3.70.

Corrugated sheets from store New York are held as follows per 100 sq. ft. of roof surface: No. 28, painted, $2.50; galvanized, $3.65; No. 26, painted, $2.85; galvanized, $3.90; No. 24 painted, $3.75; galvanized, $4.70.

Sheets.—The demand for sheets is active in all parts of the country and although some shading in the price, amounting to perhaps $1 per ton, is reported this is of little real import in comparison to the volume of business being transacted. Galvanized sheets are somewhat stronger than black sheets, due to the slight advance in the price of spelter.

Prices f. o. b. Pittsburgh are as follows:

	Cts. per lb.	
	Black.	Galvanized.
Nos. 10 and 11	1.65	2.00
Nos. 12, 13 and 14	1.70	2.10
Nos. 15, 16 and 17	1.75	2.25
Nos. 18, 19, 20 and 21	1.90	2.40
No. 22	1.85	2.40
Nos. 23 and 24	1.85	2.50
Nos. 25 and 26	1.95	2.70
No. 27	2.00	2.85
No. 28	2.00	3.00
No. 29	2.05	3.10
No. 30	2.05	3.30

Store prices Chicago are as follows:

	Cts. per lb.	
	Black.	Galvanized.
No. 10	2.20	2.75
No. 12	2.20	
No. 14	2.25	
No. 16	2.35	2.85
Nos. 18 to 22	2.50	3.00
No. 24	2.55	3.10
No. 26	2.65	3.30
No. 27	2.75	3.45
No. 28	2.95	3.60
No. 30	3.15	4.05

Steel Castings.—Prices continue without change. Open hearth steel castings, weighing from 100 to 500 lbs., are 3½ to 5 cts. per lb. Crucible castings, weighing from 100 to 500 lbs., are 7½ to 9 cts. per lb.

Freight Rates.—The freight rates on finished steel products, from the Pittsburgh district, including plates, structural shapes, merchant steel and iron bars, pipe, fittings, plain and galvanized wire, nails, rivets, spikes and bolts (in kegs), black sheets (except planished), chain, etc., are as follows, in cts. per lb.: Albany, 16; Buffalo, 11; Boston, 18; Baltimore, 14½; Canadaigua, 13½; Cleveland, 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Denver, Colo., 85½; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester, 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

Castings Gray Iron.—The Volume of business continues below normal. Building castings are to be had at 1.62½ to 2 cts. per lb., depending on the size of the order and shape of the casting. Stair work is 2 to 2.50 cts. per lb. Rough castings, such as foundation pieces, sewer work, and similar heavy pieces, are 1.50 to 1.75 cts. per lb.

Rivets.—Business is quiet, but shipments are running larger than a month ago. Structural rivets are sold at $1.70 to $1.75 base and boiler rivets at $1.80 to $1.85 base. Structural rivets, ¾-in. and larger, take base price; cone heated boiler rivets, ¾-in. and larger, take base price of boiler rivets; ⅝ and 11/16-in. take an advance of 15 cts., while ½ and 9/16-in. take an advance of 50 cts. Lengths shorter than 1-in. take an advance of 50 cts.

Merchant Pipe.—The largest order for pipe taken recently has been from the Madina Gas & Fuel Co., Lima, Ohio, for 68 miles of 10-in. pipe. This went to the International Tube Co. Mills are operating to about 70% to 75% of capacity. Discounts and prices are unchanged from last month.

	Black.	Galvanized.
¾ to 1½-in., Butt weld	79	69
2-in. Lap weld	76	66
2½ to 4-in. Lap weld	78	67
4½ to 6-in. Lap weld	77	67
7 to 12-in.	75	59

At these discounts the net prices of pipe per ft. are as follows:

	Steel Pipe in Cts. per ft. f. o. b. Mill.	
	Black.	Galvanized.
¾-inch	2.43	3.58
1 -inch	3.47	5.12
1¼-inch	4.74	7.00
1½-inch	5.69	8.35
2 -inch	8.65	12.20
2½-inch	12.70	19.80
3 -inch	16.60	25.60
4 -inch	23.70	36.70
5 -inch	33.40	48.00
6 -inch	43.20	62.00
7 -inch	54.00	78.00
8 -inch	65.00	93.00
9 -inch	78.00	112.00
10 -inch	92.00	132.00
11 -inch	104.00	149.00
12 -inch	114.00	162.00

Merchant Shapes.—Quotations from store New York are as follows:

	Cts. per lb.
Refined iron:	
1 to 1⅞-in. round and square	1.70
1½ to 4-in. × ⅜ to 1-in.	
1½ to 4-in. × ¼ to 5-in.	1.80
Rods:	
⅝ and 11/16 round and square	1.80
Angles:	
3-in. × ¼-in. and larger	1.90
3-in. × 3/16-in. and ⅛-in.	2.30
1½ to 2½-in. × ⅛-in.	2.05
1½ to 2¾-in. × 3/16-in. and thicker	1.95
1 to 1¼ × 3/16-in.	2.05
1 to 1¼ × ⅛-in.	2.10
⅞ × ⅛-in.	2.20
¾ × ⅛-in.	2.25
⅝ × ⅛-in.	3.45
½ × 3/32-in.	3.90
Tees:	
1-in.	2.35
1¼-in.	2.20
1½ to 2½ × ¼	2.00
1½ to 2½ × 3/16-in.	2.10
3-in. and larger	3.95
Beams	1.90
Channels, 3-in. and larger	1.90
Bands, 1½ to 6 × 3/16 to No. 8.	2.10
"Burden's Best" Iron, base price	3.15
Burden's "H. B. & S." iron, base price	2.95
Norway bars	3.60
Bassemer machinery	1.90
Cast steel, base	7.00
Special cast steel, base	14.00

Piling, Sheet Steel.—Prices are without change at 1.60 cts. per lb., f. o. b. Pittsburgh.

Wire Rope.—The most unfavorable thing about the wire rope trade has been the shut down of one of the leading New Jersey mills. Business has been inactive because of a lessening in the demand from Panama and likewise from railroad contractors. Prices are unchanged. The discount to the larger trade is 42½ and 5% from list for galvanized and 50 and 5% from list for bright. The net prices of bright wire rope are as follows:

Diameter,	Price per foot.		
ins.	Cast steel.	Crucible steel.	Plow steel.
2½	$1.05	$1.24	$1.46
2¼	.85	1.05	1.22
2	.57	.65	.76
1¾	.44	.54	.64
1½	.33	.39	.45
1¼	.23	.28	.32
1	.15	.18	.21
¾	.10	.11	.13
⅝	.07	.09	.10
½	.06	.07	.07

Tin Plate.—The shipments of tin plate during August were heavier than during July and tin plate mills of the country are operating to nearly a record capacity. It must be recalled that there has been considerable addition to the tin plate capacity in the last three years.

Prices are unchanged. Terne plates or tin plates used for roofing purposes are sold by the box of 112 sheets. Store prices in New York are [illegible] anged as follows: $8.70 per box f[illegible] × 28-in. I C plates with an 8-lb. c[illegible]g; plates of the same size with a [illegible] coating, are $10.60; 20-lb. coating, $13.20, and 40-lb. coating, $16.70.

Lag Screws.—Cone poin[illegible] lag screws are sold at a discount of [illegible]0% from list. The net prices are as follows:

	Diameter in inches—Net price per 100.		
Length.	½-in.	[illegible]-in.	1-in.
3½-in.	$1.04	[illegible]	$4.40
4 -in.	1.11	[illegible]	4.66
4½-in.	1.10	[illegible]	4.92
5 -in.	1.25	[illegible]	5.18
6 -in.	1.40	[illegible]	5.70
7 -in.	1.59	[illegible]	6.22
8 -in.	1.68	[illegible]	6.74
9 -in.	1.83	[illegible]	7.26
10 -in.	1.87	[illegible]	7.78
11 -in.	2.11	[illegible]	8.30
12 -in.	2.26	[illegible]	8.82

Coke.—The output of co[illegible] continues to increase. In the last w[illegible] in August it was 313,722 tons, compared with 277,000 tons in July and 2[illegible]00 tons in June. For prompt shipment, furnace coke can be had at $1.5[illegible] for the remainder of the year contracts are made at $1.60 to $1.65 per net ton. The price of 72-hr. furnace coke is slightly lower at $1.85 to $1.90 for prompt shipment, but contracts for future delivery are a trifle firmer at 2.10 to $2.25

Chain.—Prices are unchanged and the following are named for cask lots of 500 lbs. to consumers. The quotations are per 100 lbs. f. o. b. Pittsburgh.

Sizes in ins.	Proof.	BB.	BBB.
3/16	$8.10	[illegible]	$9.85
¼	5.55	[illegible]	7.39
5/16	4.55	[illegible]	6.30
⅜	4.00	[illegible]	5.75
7/16	3.70	4.95	5.45
½ and 9/16	3.50	4.75	5.25
⅝	3.40	4.65	5.15
¾	3.30	[illegible]	5.05
⅞	3.20	4.45	4.95
1	3.10	4.35	4.85
1⅛ and 1½	3.20	4.45	4.95

Prices for hand-made chains are unchanged:

Size in inches.	BBB craine chain.	BBB crane, dredge hoisting or steam shovel hoisting chain.	Special "Warwick" crane, hoisting steam shovel hoisting & dredge hoisting chain.	Special "Trident" crane, steam shovel hoisting & dredge hoisting chain.
⅝	$7.95	$8.20	$9.15	$9.15
¾	7.15	7.45	8.45	8.45
⅞	7.67	6.90	7.90	...
1	6.15	6.40	7.45	...
1⅛	5.75	5.95	6.90	...
1¼	5.65	5.90	6.85	...
1⅜ to 1⅞	5.55	5.75	6.80	...

Spiral Riveted Pipe.—Prices continue unchanged from the last report. The prices given below are f. o. b. factory, freight equalized with New York City, being figured at a discount of 50, 10 and 10% from list.

They are for orders amounting to about $250. For large orders of several carloads, prices are from 12½ to 20% cheaper.

Diameter in ins.	*Thickness of steel. Birmingham wire gage.	Net price per 100 ft. With bolted joints complete.		
		Plain.	Asphalted.	Galvanized.
3	20	$21.80	$14.21	$20.70
4	18	19.76	21.48	30.74
5	18	23.40	23.70	37.14
6	16	33.05	35.76	49.73
7	16	37.58	40.76	56.82
8	16	43.17	46.80	65.00
9	16	50.06	54.10	74.22
10	14	66.42	71.08	96.15
11	14	71.20	76.57	102.24
12	14	83.75	89.15	118.30
13	14	89.67	96.55	127.98
14	14	99.14	105.51	138.85
15	14	108.05	114.89	151.92
16	14	117.53	124.82	166.58
18	12	167.43	175.95	226.44
20	12	183.79	193.30	248.39
22	12	200.48	210.64	269.21
24	12	219.92	231.07	293.99
26	10	280.20	292.41	370.78
28	10	301.32	314.89	395.37
30	10	324.81	399.15	430.64

*Made in both lighter and heavier gages at corresponding differences in price.

Nails.—The demand for nails is much more satisfactory than in some time and stocks in the hands of jobbers and retailers all over the country are small. Wire nails in Pittsburgh are sold at $1.75 per keg base in carload lots to retail merchants. In less than carload lots, an advance of 10 cts. per keg is demanded. In New York wire nails are sold from store at $2.00 per keg. Cut nails are now $1.65 per keg in carload lots from Pittsburgh, but the price in New York has been reduced 5 cts. per keg, and the base price is now $2.00. All these prices are per 100 lbs.

Wire.—Some of the independent mills have been cutting the price of wire about $1.00 per ton. The leading interest is still maintaining the old quotations, which are as follows: For carload lots of wire: Annealed, $1.55, galvanized, $1.85. Less than carload lots are sold at an advance of 10 cts. per 100 lbs. Galvanized barb wire is $2.05 and painted $1.75.

Swedish Steel.—Business is quiet. Prices are without change. Drill steel, either round, hexagon or octagon, is 6 cts. er lb. for all sizes, ⅝ to 2 ins. For s s 2⅛ to 3 ins., 7 cts. is quoted, and to 4 ins. is 7½ cts. Hollow dr rod is held at 12½ to 15 cts. for the ported. Anvils of edish steel are held at 9 to 9½ cts r lb. They weigh from 80 to 600 lb

Switch P nts. — The following prices are med f. o. b. mill, for switch poin in lots of ten or more pair; for 60- rail, 10-ft. points, $16.25; 15-ft. points 17.50 for 70-lb. rail; 10-ft. points, 15-ft. points, $25; for 80-lb. rail, ft. points, $25.50; 15-ft. points, $27 for 90-lb. rail, 15-ft. points, $30.5 for 100-lb. rail, $33.50. All of the ove are furnished with three rods, ept the 10-ft. points for 60 or 70-lb. il, which have only two.

Bolts.—Pr s are unchanged from last month. The discount on common carriage bol to the trade and large consumers i 75 and 10% on bolts ⅜ × 6-in. and sm ller. On larger and longer bolts the di ount is 70 and 10%. At these discou ts the net prices are as follows:

CARRIAGE BOLTS.

Length ins.	Diameter inches Net price per 100. ⅜	½	¾
4	$0.62	$0.99	$2.34
5	0.68	1.13	2.57
6	0.75	1.23	2.84
7	0.99	1.35	3.05
8	1.08	1.46	3.32
9	1.16	1.58	3.55
10	1.24	1.70	3.80
12	1.42	1.94	4.30
14	1.59	2.18	4.80
16	1.77	2.42	5.28
18	1.94	2.65	5.78
20	2.10	2.88	6.30

Frogs.—For mill shipments of ten or more, prices are as follows: Bolted frogs, No. 7, for 60-lb. rail, $15; for 70-lb. rail, $16.50; for 80-lb. rail, $18; No. 8 frogs for 90-lb. rail, $21; for 100-lb. rail, $23. Plate frogs, No. 7, riveted to ⅝-in. plate for 60-lb. rail, $18; for 70-lb. rail, $20; for 80-lb. rail, $21.50. No. 8 frogs bolted to a ¾-in. plate for 90-lb. rail are $25.50; for 100-lb. rail, $27.50.

REINFORCING MATERIAL.

Interlocking Plates.—For interlocking steel plates, of 24 gage black steel, f. o. b. mill Central Ohio, the following prices are named:

Length.	Per 100 sq. ft. Weight.	Price. Flat Sheets.
Under 4 ft.	100 lbs.	$11.00
4 to 6 ft.	160 lbs.	10.00
6 to 8 ft.	160 lbs.	9.50
8 to 10 ft.	160 lbs.	9.00
10 ft.	160 lbs.	8.50

Curved sheets are held at an advance of $11 per 100 sq. ft. over flat.

Expanded Metal. — Quotations are without change as follows:

[illegible]

Mesh.	Gage-stubbs.	Designation.	Weight per sq. ft.	Sectional area per ft. width.	Price per sq. ft. in cts. Carload.	10,000 sq. ft. to carload.
½-in.	18	Standard	.74	.209	3.71	4.04
¾-in.	13	Standard	.80	.225	3.69	4.03
1½-in.	12	Standard	.70	.207	3.43	3.76
2 -in.	12	Standard	.56	.166	3.20	3.48
3 -in.	13	Standard	.28	.087	1.32	1.44
3 -in.	10	Light	.50	.148	1.55	1.69
3 -in.	10	Standard	.60	.178	1.80	1.97
3 -in.	10	Heavy	.90	.267	2.46	2.69
3 -in.	10	Ex heavy	1.20	.356	3.18	3.47
3 -in.	6	Standard	1.38	.400	3.85	4.20
3 -in.	6	Heavy	2.07	.600	5.64	6.16
4 -in.	16	Old Style	.42	.093	1.78	1.94
6 -in.	4	Standard	.84	.245	2.42	2.64
6 -in.	4	Heavy	1.26	.368	3.38	3.68

Triangular Mesh.—Business continues active at the reduced quotations. The following quotation are per 100 sq. ft. in lots of the size named, f. o. b. mill in Pittsburgh district:

Price per 100 sq. ft.

Style No.	Cross sec. area per ft. width.	Carload lots.	Less than carloads and over 10,000 sq. ft.
* 4	.102	$0.97	$1.18
5	.077	.77	.94
6	.058	.61	.74
* 7	.041	.47	.58
*23	.170	1.62	1.98
24	.142	1.40	1.71
25	.124	1.24	1.51
*26	.110	1.13	1.38
*27	.085	.92	1.13
28	.066	.77	.94
29	.049	.63	.77
31	.261	2.39	2.92
32	.225	2.07	2.53
33	.196	1.85	2.26
34	.146	1.42	1.73
35	.109	1.13	1.38
36	.075	.83	1.02
*38	.380	3.40	4.15
39	.324	2.93	3.58
40	.283	2.57	3.14
41	.208	1.96	2.39
*42	.151	1.49	1.82
43	.101	1.06	1.29

This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 ins. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars, Concrete Reinforcing. — The base price of bars is 1.25 cts. per lb., Pittsburgh, in carload lots. The extras on different sizes are as follows:

	Cts. per lb. Plain.	*Deformed.
¾-in. and larger	1.25 to 1.35	1.30 to 1.40
⅝-in.	1.30 to 1.40	1.35 to 1.45
½-in.	1.35 to 1.45	1.40 to 1.50
⅜-in.	1.50 to 1.60	1.55 to 1.65
¼-in.	1.75 to 1.85	1.80 to 1.90

Bar from stock, Pittsburg, are usually cut to the required length without extra charge. Prices per lb. are as follows:

	Cts. per lb. Plain.	*Deformed.
¾-in. and larger	1.45 to 1.55	1.55 to 1.65
⅝-in.	1.50 to 1.60	1.60 to 1.70
½-in.	1.55 to 1.65	1.65 to 1.75
⅜-in.	1.70 to 1.89	1.80 to 1.90
¼-in.	1.95 to 2.05	2.05 to 2.15

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*The price of deformed bars varied according to the shape, and some are held much higher than these prices.

LUMBER.

The lumber trade has been more active during the last month, and although the amount of business done by the yards in the vicinity of New York has not been as large as the boom times of two years ago, it has been fairly satisfactory and all the more so, because the volume of business conducted was slightly larger than in the preceding months. Another consideration is that stocks are low, and even in the country there has been no piling up of a surplus supply. There has been a great amount of trouble with saw mill labor in the yellow pine districts and 14 of the larger mills have shut down and locked out their employees. This shut-down affects between 8,000 and 10,000 men and the mills that have been ordered closed have a daily output of 3,000,000 ft. of lumber.

Long Leaf Yellow Pine.—The market is somewhat more active and long sticks are in considerably better demand. Prices continue unchanged, and for delivery from yard in New York and vicinity, for material classed as "Merchantable" under the 1905 rules of the Association, prices are as follows:

Prices per Thousand Feet in Yard, New York.

	Length. 20 ft. base.	21 to 25 ft.	26 to 30 ft.	31 to 35 ft.
2 in. wide and under by 8 in. thick and under	$31	$32	$33	$34
10 in. wide by 10 in. thick and under	33	34	35	36
12 in. wide by 12 in. thick and under	36	37	38	39
14 in. wide by 14 in. thick and under	43	44	46	46
16 in. wide by 16 in. thick and under	45	46	47	48

For pieces longer than 35 ft. and less than 40 ft., add from $4 to $8 to base price.

Spruce.—In Boston wholesale prices are as follows:

	Per 1,000 ft.
9-in. and under	$23.50 to $24.00
10 to 12-in	23.50 to 24.00
2 × 4-in. random	20.00 to ....
2 × 6-in. random	19.50 to 20.00
2 × 8-in	21.50 to 22.00
2 × 10-in	22.50 to 23.50
2 × 12-in	22.50 to 23.50

Hemlock.—The base price of Pennsylvania hemlock is $21. In West Virginia, hemlock is now selling at $20.50. This is an advance of about 50 cts. compared with last month, but as many of the yards have stock at the old prices, it is still possible to obtain hemlock at about the following quotations:

Price Per Thousand, f. o. b. cars, New York.

Size.	Length. 10 ft.	12 ft.	14 ft.	16 ft.
2 × 4-in.	$22.50	$20.50	$20.50	$22.50
2 × 6-in. to 2 × 10-in.	20.50	20.50	20.50	17.50 to 18.50
3 × 4-in. to 12 × 12-in.	21.00	21.00	21.50	18.50 to 19.50
1 × 8-in.	....	17.50	17.50	17.50
1 × 10-in. and 1 × 12-in.	....	18.00	18.00	18.00

Flooring.—The price of flooring is steady and the demand is good, although it must be said that the cheaper grades are in much better demand than high-grade material. Quarter-sawed oak flooring, A 1, is $95 per M. Selected, quarter-sawed, white oak or red oak flooring is $52 per M., and common oak flooring, red or white, is $30 per M.

Maple flooring, 13/16 × 2 ins., is $44 for clear; $37 for No. 1 and $24 for factory.

Long-leaf yellow pine flooring, 13/16 × 2½ face, is $55 to $60 for A heart rift; $40 for sap rift; $28 to $30 for flat rift and $22 to $23 for No. 1 common flat grain.

Lath.—The price is steady in Boston; 1⅝-in. sells at $3.75 and 1½-in. at $3.40 to $3.50.

Cross Ties.—The demand from the railroads has been light and prices are more or less nominal. In New York, the G. S. Baxter Co., 15 William St., quote prices from last month as follows:

	Cents each.
7 × 9-in. by 8 ft. 6-in.	75
6 × 9-in. by 8 ft.....nominal	72
6 × 8-in. by 8 ft.	67

Second-class, sound and square edge, are quoted as follows:

	Cents each.
7 × 9-in. by 8 ft.	61
6 × 9-in. by 8 ft.....nominal	51
6 × 8-in. by 8 ft.....nominal	45

CLAY PRODUCTS.

Hollow Tile.—The demand is fairly satisfactory, especially the out-of-town shipments.

Prices are without change for hollow wall building tile, f. o. b. factory, Perth Amboy, N. J., as follows:

Size.	Price per block, in cts.
4 × 12 × 12-in.	5.25
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	10.5
10 × 12 × 12-in.	10.5
12 × 12 × 12-in.	12.1

Fireproofing partition blocks are unchanged as follows:

Size.	Price per block, in cts.
2 × 12 × 12-in.	4.4
3 × 12 × 12-in.	4.4
4 × 12 × 12-in.	5.
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.8

These prices are for what would be considered small orders—approximately carload lots. For quantities which exceed $1,000 worth of material concessions will be made.

Duct Telephone.—Small lots are sold at 4½ to 5 cts. per duct ft., but considerable concessions are made for desirable orders.

Sewer Pipe. — Quotations continue without change, and the demand is somewhat larger. Discounts applying to the Eastern list are as follows: For all sizes up to and including 24-in., 84% discount; for 27 and 30-in., 76% discount; for 33 and 36-in., 71% discount.

At these discounts the net prices per ft. for carload lots, f. o. b. factory, are as follows:

3-in.	$0.032
4-in.	.04
5-in.	.048
6-in.	.064
8-in.	.087
10-in.	.128
12-in.	.16
15-in.	.215
18-in.	.30
20-in.	.36
21-in.	.43
22-in.	.48
24-in.	.52
27-in.	1.09
30-in.	1.22
33-in.	1.78
36-in.	2.04

Roofing Tile.—Prices are steady and continue without change. The best grade for promenade roofing tile in flat blocks for high-grade roofs is sold at $20 per M. for run of kiln, and $30 per M. for selected. A cheaper form of tile with a smooth surface can be had at $10 to $12, but it is not suitable for roof gardens. These prices are for 9 × 9-in. blocks, f. o. b. factory. It requires 258 blocks to lay 100 sq. ft. of roof surface and, in consequence, the price per 100 sq. ft. of roof surface would be $4 to $5 for the smooth blocks; $7.82 for run of the kiln, and $10.73 for the selected.

Vitrified tile, unglazed, of the French or Spanish type is sold at approximately $8.50 per 100 sq. ft. of roof surface, f. o. b. factory. Glass tiles are sold at 60 cts .each. It requires 183 of these for 100 sq. ft. of roofing.

Flue Lining.—Prices continue without change. The discount from list, f. o. b. mill, is 85%. Delivered in New York, in small lots, they can be had at 78%. Based on a discount of 85% at the mill, net prices are as follows:

	Weight in lbs.	Price per ft.
4½ × 8½-in.	14	$0.04½
4½ × 13 -in.	20	.068
4½ × 18 -in.	40	.015
6 × 12 -in.	22	.075
7 × 7 -in.	15	.053
8½ × 8½-in.	18	.068
8½ × 13 -in.	28	.098
8½ × 18 -in.	45	.135
12 × 16 -in.	45	.15
13 × 13 -in.	38	.128
13 × 18 -in.	57	.18
14 × 16 -in.	60	.165
16 × 16 -in.	65	.24
16 × 20 -in.	80	.30
18 × 20 -in.	75	.30

MILL SUPPLIES.

Shafting.—The shafting trade is not as active as it was, but manufacturers of automobile trucks are making contracts for large quantities.

Discounts are 60% from list for carload lots and 55% for less than carload lots.

The following net prices per foot are based on the discount of 55%: ¾-in., 3.75 cts.; 1-in., 6.65 cts.; 1¼-in., 10.40 cts.; 1½-in., 13.50 cts.; 1¾-in., 18.30 cts.; 2-in., 23.70 cts.; 2¼-in., 31.45 cts.; 2½-in., 37.53 cts.; 2¾-in., 45.40 cts.; 3-in., 54.13 cts.; 3½-in., 82.60 cts.; 4-in., $1.15; 4½-in., $1.50; 5-in., $2.10; 5½-in., $2.74; 6-in., $3.48.

Belting.—The price of rubber belting is lower than a month ago, due more or less to the lower price prevailing for crude rubber.

The following quotations prevail for rubber belting: Best grades, 40 and 10% to 50%; standard, 50 and 10 to 60%; competitive grades, 60, 10 and 10% to 70%. Discounts on leather belting are unchanged as follows: Extra heavy, 60%; heavy, 60 and 5%; medium, 70%; light, 70 and 5%; standard, 70 and 10%.

The following net prices per ft. of rubber belting are computed at the outside discounts given above. The price of leather belting is, as stated, unchanged from last month. The net prices will be found on p. 50 issue of July 3.

RUBBER BELTING, NET PRICE PER FT.

Width inches.	2-ply.	4-ply.	6-ply.	8-ply.
3	$0.16	$0.22	$0.33	....
4	.21	.30	.45	....
5	.26	.44	.55	....
6	.30	.51	.65	$0.87
7	.36	.55	.75	1.01
8	.40	.57	.87	1.15
9	.46	.64	.96	1.30
10	.51	.72	1.01	1.44
12	.60	.86	1.30	1.70
14	.72	1.01	1.53	2.01
16	.83	1.17	1.76	2.35
18	.93	1.34	2.00	2.65
20	1.04	1.49	2.25	2.98
22	1.17	1.67	2.50	3.33
24	1.30	1.85	2.76	3.70
26	1.42	2.04	3.06	4.08
28	1.58	2.22	3.33	4.45
30	1.69	2.40	3.60	4.80
34	1.94	2.79	4.16	5.54
38	2.22	3.15	4.70	6.30
42	2.46	3.50	5.30	7.00
46	2.75	3.88	5.80	7.72
50	3.02	4.25	6.40	8.50
56	3.40	4.80	7.20	9.60
60	3.67	5.20	7.80	10.40

Chain Belting.—Prices are without change and the demand is fair.

From 3 HP. to 10 HP. 30-in. centers complete, with two sprockets, $7 to $8 per HP.; from 10 HP. to 25 HP., 36-in. centers complete, $5 to $6 per HP.; from 25 HP. to 100 HP., 60-in. centers complete, $4 to $5 per HP.; from 100 HP. to 500 HP., 72-in. centers complete, $3 to $4 per HP.

Packing.—The demand is good. Prices continue unchanged for original packages in small lots.

Asbestos wick and rope, 13 cts.; sheet rubber, 11 to 13 cts.; pure gum rubber, 40 to 45 cts.; red sheet, 40 to 50 cts. Cotton packing can be had at 16 to 25 cts.; jute at 3¼ to 3½ cts., and Russian at 9 to 10 cts.

Lubricating Oils.—Quotations continue without change, the following figures being named for 5-bbl. lots:

	Cts. per gal.
*Cylinder, dark	20 to 27
*Cylinder, steam, refined	14 to 22
Neutral Oils, filtered:	
Stainless white, 32 to 34 gravity	28 to 29
Lemons, 33 to 34 gravity	17 to 19
Dark, 32 gravity	15 to 18
Crank Cast oil	15 to 17

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*Prices are according to test.

High-Speed Steel.—The demand is less than last month. Prices are without change at 50 to 75 cts. per lb.

Fire Hose.—Prices of hose are unchanged. The standard grade of underwriters' cotton rubber-lined hose, 2⅝-in. diameter, warranted, 350 lbs. pressure, is sold in 50-ft. lengths, complete with couplings, at 65 cts. per ft. Common hose, 2½-in. diameter, tested to 200 lbs. pressure, is 35 cts. per ft.

Cotton Waste.—The following prices are named on cotton waste in bales of 100 to 500 lbs.:

No. 1 White Picked Cotton Waste, 9¾ cts. per lb.; No. 3 is 8⅞ cts.; No. 1 Colored, 6½ cts.; No. 3 Colored is 5½ cts.

OILS AND PAINTS.

Petroleum Products.—The price of crude oil in bbls. as quoted by the Standard Oil Co. or its subsidiaries is unchanged as follows: Pennsylvania, Second Sand, and Tiona, $1.30; Mercer black, is 87 cts.; Corning, 77 cts.; New Castle, 84 cts.; Illinois, 65 cts.; Illinois heavy, below 30 gravity, 55 cts.; Kansas heavy 30 cts.

In New York petroleum from tank wagon is unchanged at 6 cts. and auto naphtha and stove gasoline is likewise without change at 12¾ cts. per gal.

Fuel oil is 2.75 cts. per gal. or $1.15 per bbl. of 52 gals. in carload lots f. o. b. New York.

Spirits Turpentine.—The market is very dull and prices are without change from a month ago, being quoted at 53½ to 54 cts. per gal. in New York in 5 bbl. lots. In Savannah the price is likewise without change at 50 cts. per gal. Consumers of turpentine are waiting until the new supplies come on the market. It is expected that somewhat lower prices may prevail.

Linseed Oil.—The price of oil has not declined as much as was expected by consumers and city raw is now sold at 87 to 88 cts. per gal. in 5 bbl. lots. The price of linseed at Duluth continues to advance and the supply is extremely limited. While some of the early grown flax has come into the market there has not been sufficient movement in the Northwest to make any appreciable difference in the supplies in the Duluth market. The October option on flaxseed was quoted at $1.95 per bushel a month ago, it is now $2.30 at the same point, with the November option only slightly below these figures. This would indicate that for another year at least the price of linseed oil will be high.

Paints.—The demand is limited, but it must be said that there is more paint being sold in which linseed oil substitute is used than before in a long time. Should the present high prices for oil continue to prevail, as now seems likely, these quotations may be forced somewhat higher. Prices of white lead in oil are unchanged. For lots of 500 lbs. or over, in 250 to 500-lb. kegs, 7½ cts. per lb. in 25 and 50 lb. kegs, 7¾ cts. is quoted. Red lead and litharge in bbls., half bbls. and 100-lb. kegs, is 8 cts. per lb.

Graphite paint is moving slowly. The best grades of graphite paint in linseed oil can be purchased at $1.40 per gal.

Hydrex preservative paint is 75 cts. per gal. in bbl. lots, New York City.

Colors in oil are quoted at the following prices per lb.: Lamp black, 12 to 14 cts.; Chinese blue, 36 to 46 cts.; Prussian blue, 32 to 36 cts.; Van Dyke brown, 11 to 14 cts.; Chrome green, 12 to 16 cts.; Raw or Burnt Sienna, 12 to 15 cts.; Raw or Burnt Umber, 11 to 14 cts.

CHEMICALS.

	Cts. per lb.	
Nitric acid, 30°	3.87½	to 4.25
Nitric acid, 40°	4.50	to 4.87½
Sulphuric, 60°	0.90	to 1.00
Sulphuric, 66°	1.00	to 1.25
Sal Ammoniac, lump	9.25	to 9.75
do., granulated	5.87½	to 6.00
do., gray	6.00	to 6.25
Sulphur, roll	1.85	to 2.15
Sulphur, flour	2.00	to 2.40
Sulphur, flowers	2.20	to 2.60
	Per gallon.	
Alcohol, grain, U. S. proof	$2.58	to $2.60
Alcohol, denatured, 5-bbl lots	.41	to .42
Alcohol, denatured, ½-bbl.	.46	to .47
Alcohol, wood, 95 to 97	.52	to .57
Alcohol, wood, purified	.80	to ...

LINE CONSTRUCTION.

Aluminum Wire.—There is a very fair demand for aluminum wire in California and on the Pacific Coast, and the aluminum industry is in better shape than for some time past. Prices of wire continue steady and without change at 31 cts.

Poles.—Cedar pole are quoted as follows by the R. D. Dowie Pole Co., New York Block, Seattle, Wash. The price is f. o. b. loading point:

Length in feet.	Diameter at top. 8-in.	Diameter at top. 9-in.
30	$2.70	....
35	3.15	$3.50
40	3.60	4.00
45	....	4.50
50	....	5.00
55	....	5.50
60	....	7.20
65	....	9.75
70	....	10.50
75	....	11.25
80	....	12.00

The prices of 30 and 35-ft. poles with a 7-in. top are 25 cts. higher. Otherwise chestnut poles, f. o. b. Mechanicsville, N. Y., are quoted by T. C. Luther of that place as follows:

Length in feet.	Price each. Diameter at top. 5-in.	6-in.	7-in.
25	$1.50	$2.00	$2.75
30	2.50	2.75	3.50
35	2.75	3.25	4.25
40	3.25	4.00	5.50
45	4.00	5.50	7.50
50	5.50	7.50	9.50

Fir Cross Arms.—Prices are unchanged, as follows:

Size, 3½ × 4-in.	Price per arm in cts. Pacific Coast.	Chicago.	New York.
3 ft., 2-pin	8	13½	15½
4 ft., 2-pin	11	18½	21
5 ft., 4-pin	16	26½	28½
6 ft., 4 and 6-pin	20½	31½	36
8 ft., 6 and 8-pin	28	42	48½
10 ft., 8, 10 & 12-pin	37	55½	67½

Telegraph Wire.—For lots of fair size, the wire measured in Birmingham wire gage, the prices in cts., per lb., are as follows: "Extra Best Best," Nos. 6 to 9, 4⅝ cts.; Nos. 10 and 11, 4½ cts.; No. 12, 4⅝ cts.; No. 14, 5⅛ cts. "Best Best," Nos. 6 to 9, 3½ cts.; Nos. 10 and 11, 3⅜ cts.; No. 12, 3½ cts.; No. 14, 4 cts. Actual freight is allowed from Trenton, N. J., where it does not exceed 25 cts. per 100 lbs.

Insulators. — Prices are without change. Glass insulators in lots of more than 1,000 and less than 10,000 are sold at the following prices per 1,000: Double petticoat, 20 oz., $33; Western Union, $30.25; No. 2 cable, $53.90; No. 4 cable, $210; Muncie type, 7-in., $236.50; No. 3 triple petticoat, 4½-in., $90.75.

Copper Wire.—During the last month numerous orders have been placed for wire for small work. The buying of wire by the large power companies and the railways has fallen off. Prices are without change at 14 cts. base.

METALS.

Copper.—The report of the Copper Producers' Association for July, which was issued about the middle of August, was the most favorable of the year. The production was smaller than during the previous month by 12,000,000 lbs. and stocks of unsold copper were reduced 20,000,000 lbs. They are not only smaller than at any previous time this year, but are 30,000,000 lbs. less than the corresponding time last year. Since these reports were issued the market has taken a somewhat unfavorable turn. For example, the suspension of some important electrification work on the New Haven system and a slowing down on some of the Western roads. Preparations are being made, however, for subway work in New York and the electrification of this rapid transit road will call for a large quantity of copper, but probably little of it will be specified in the next two years. The unfavorable labor conditions in Great Britain have had a somewhat depressing effect on the copper market there and consumption is not as large as a month ago. The most serious cloud, however, has been the political difficulties betcen France and Germany. Germany has been one of the greatest consumers of copper for the last three years. In fact, the consumption there has been almost phenomenal. Should this slow down it would have a very telling effect on the exports of copper from American ports. A rather sensational report on the valuation of the Michigan copper mines was issued during the month; in this inference was drawn that the value of the mines had been much over-rated.

The total exports of copper for August amounted to practically 28,000 tons and for the first eight months of the year, 222,000, an increase of 42,000 tons compared with the same period last year. The fortnightly report of copper stocks in Great Britain show practically no changes.

Roofing Copper.—The demand continues good and there is more inquiry for firebox copper and heavy sheets than in a long time. Prices are unchanged at 16½ to 17 cts.

Pig Tin.—The tin situation has been largely influenced by the dock strike in London. As is known, most of the tin coming from the Straits is shipped direct to London and the freight rate from the Straits to London carries an option on an exceptionally low rate on the Atlantic Transport line from London to New York. For this reason most of the tin is shipped from London to New York by this line. As it happens, the Atlantic Transport line had more difficulty with labor than any other Transatlantic line, largely because of its docking in London and the shipments by Atlantic Transport steamers were extremely small. Some was shipped from Southampton and some from Livxerpool. At times the price of spot tin in New York was 4 to 6 cts. higher than the price of futures, wholly accounted for by the absence of spot tin. The statistics compiled the end of the month show that the deliveries into consumption amounted to 3,800 tons, exceeding the arrivals by 600 tons and reducing the stocks in New York to 915 tons. The total visible supply throughout the world on August 31, was 16,619 tons, a decrease of 1.324 tons compared with a year ago. The supply of tin will shortly be augmented by large arrivals from the other side. Direct steamers from the East will bring some metal, but the "Mesaba" and the "Minnetonka" will bring over 1,200 tons and these will arrive September 5 and 7. Tin is not only afloat from the East on direct steamers, but is being shipped from French and Holland ports, something unusual. Prices are now somewhat higher than last month and tin is selling at 42½ cts. The October option can be had at 41½ cts.

Spelter.—The highest prices of the year were reached about the middle of August when some spelter was sold in the New York market at 6.20 cts.; at the same time the quotation in St. Louis was 6.05 cts. Since then prices have declined and spelter is now available in New York at 5.90 cts. and in St. Louis at 5.75.

Lead.—The market is steady and without change. In St. Louis spot lead is held at 4.42½ cts. and in St. Louis at 4.50 cts.

	Per lb.
Sheet lead:	
Large lots	6.25 cts.
Small lots	6.75 cts.
Lead Pipe:	
Large lots	5.75 cts.
Small lots	6.40 cts.

Miscellaneous Metals.—Small lots of metal and metal products can be obtained from jobbers' stores, New York, at the following prices:

	Per lb.
Bismuth	$2.25
Brass tubes, iron pipe sizes:	
½-in.	.19
¾ to 3-in.	.18
3½-in.	.19
4-in.	.20
Brass, sheets	.14¼
Brass, rods	.14¼
Solder, ½ and ½ guaranteed	.27½
Zinc, sheets	.08½
Manganese bronze rods	.16
Manganese bronze in crucible form	.14
Monel metal, ingot	.16

Old Metals.—Miscellaneous lots or scrap metal, amounting to about a ton, can be sold to dealers in New York at about the following prices:

	Cents.	
Copper, heavy & crucible.	10.75	to 11.00
Copper, heavy and wire	10.50	to 10.75
Copper, light and bottoms	9.50	to 9.75
Brass, heavy	7.00	to 7.25
Brass, light	5.50	to 5.75
Heavy mach. composition.	9.25	to 9.50
Clean brass turnings	7.00	to 7.25
Composition turnings	8.25	to 8.50
Lead, heavy	....	to 3.75
Lead, tea	....	to 3.50
Zinc, scrap	....	to 4.00

MISCELLANEOUS.

Roofing Slate.—The market continues dull and prices are without change. Quotations are named per "square" or 100 sq. ft. of roof surface in carload lots of the sizes in most general use, f. o. b. quarry station:

	Prices per 100 sq. ft.	
Vermont, sea green	$3.50	to $4.10
Pennsylvania, Bangor Ribbon	3.50	to 4.00
Maine, Brownsville No. 1	5.00	to 7.75
Maine, Brownsville No. 2	4.50	to 6.00
No. 1 Red	10.50	to 12.00
Unfading Green	4.00	to 5.50
Genuine Bangor	4.00	to 6.50
Pen Argyle	4.00	to 5.50

Rope.—Prices are without change but the market is steady.

Pure Manila is 8½ to 9 cts. per lb.; second grade, 7½ to 8 cts.; hardware grades, 7 to 7½ cts. per lb. Pure Sisal is 6½ cts. for the highest grades, and 6 cts. for less desirable grades. Jute rope in commercial sizes is 6 to 6½ cts. per lb.

Waterproofing.—The prices for carload lots, f. o. b. cars New York, are as follows: Hydrex waterproofing felt. $1.25 per 100 sq. ft.; Hydrex compound "A." 26 cts. per gal.; Hydrex compound "B." 18 cts. per gallon.

Texaco waterproofing cement is $30 per ton in car lots, f. o. b. cars New York or Philadelphia.

Asphaltum for waterproofing is sold at $26 to $27 per net ton.

Glidden, graphite acid proof coating is sold at $1.25 per gal. in bbl. and ½ bbls., and $1.40 per gal. in 5-gal. cans. These prices are f. o. b. Cleveland or for delivery from warehouse, New York, Chicago, St. Louis, Boston or Atlanta.

Explosives.—Dynamite of the kind usually used by contractors is approximately 11 to 13 cts. per lb., f. o. b. factory, in ton lots. Blast powder, classified as "soda" grad sold at $1.20 to $1.40 per keg lbs. in lots of 10,000 lbs. The fol g prices prevail on Trojan in carlo ts, minimum 24,000 lbs., f. o. b. ic Coast points: No. 1, 13½ cts.; N ½ cts.; No. 3, 10 cts. They have sruptive force equivalent to 60%, and 30% of nitro-glycerine.

Exploders, per hundred, sold at the following prices: 4 ft 60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., 12 ft. $5.60; 16 ft., $6.60; 20 ft., 20 ft., $9.40; 30 ft., $12; 36 ft., $

Caps in lots of 10,000 are to $8 per thousand.

Blasting machines for les are $12; 25 holes, $20; 50 hol $40; 100 holes, $60.

Roofing Cement.—Prices are unchanged at $25 per ton for xaco.

Asbestos.—Asbestos build felt and sheathing in less than to s is 3½ cts. per lb. for the light, we ing from 6 to 30 lbs. per 100 sq. ft. cts. per lb. is charged for the heav weighing from 45 to 56 lbs. per 100 s ft.

Millboard is made in stan d sheets 40 × 40 ins., and 41 × 40 in it varies in thickness from 1/32 to in. and in weight from 2 to 27 lbs. per sheet. The net price in 100-lb. lots is per lb.

Transite, asbestos wood, used for fireproofing, ventilators and smoke jacks, comes in standard sheets, 36 × 48 ins., 42 × 48 ins., and 42 ins. The prices, f. o. b. factory, Na N. H., are as follows:

Thickness.	Weight.	Price.
⅛-inch	1 lb.	$0.08
3/16-inch	1½ lbs.	.12
¼-inch	2 lbs.	.16
5/16-inch	2½ lbs.	.20
⅜-inch	3 lbs.	.24
7/16-inch	3½ lbs.	.28
½-inch	4 lbs.	.32
9/16-inch	4½ lbs.	.36
⅝-inch	5 lbs.	.40
¾-inch	6 lbs.	.44
⅞-inch	7 lbs.	.48
1-inch	8 lbs.	.52
1¼-inch	10 lbs.	.56
1½-inch	12 lbs.	.64
1¾-inch	16 lbs.	.72
2-inch	16 lbs.	.80

Paper.—Prices are unchanged from last month, as follows:

Tarred Paper:	Per roll of 108 sq. ft.	
Standard, 2-ply, 40 lbs.	$0.40	to $0.45
Extra heavy, 2-ply, 45 lbs.	.50	to .55
Standard, 3-ply, 60 lbs.	.60	to .65
Extra heavy, 3-ply, 70 lbs.	.70	to .75

Rosin, Sized Sheathing:	Per roll of 500 sq. ft.
Light, 25 lbs.	$0.38
Medium, 30 lbs.	.45
Heavy, 40 lbs.	.60

Rubber.—The price of rubber has advanced slightly during the month. Buying has not been large and consumers evince no disposition to enter the market and buy large quantities at the prevailing quotation. At the same time, holders of rubber do not seem to be frightened at the large stocks on hand and believe that these supplies can be liquidated at prevailing quotations. A report of the Director of Agriculture of the Federation Malay States shows that the production in these states for the year 1910 was 12.563.000 lbs. against 6,000,000 lbs. in 1909. The opinion is also expressed that there will be an increase of 10.000.000 lbs. in 1911, 15,000,000 lbs. in 1912 and 1913 and 20.000,000 lbs. in 1914, providing the supply of labor is sufficient to harvest such an enormous crop. Quotations are as follows: Up River Para, fine, $1.14 to $1.18; up River Para, coarse, 96 to 98 cts.; Caucho ball, 95 to 96 cts.; Guayule, 44 to 46 cts. African rubbers are unchanged at 92 to 96 cts. for Massai red; 75 to 76 cts. for Pinky and 56 to 58 cts. for Niggers.

Lighterage Limits.—The free delivery or "Lighterage Limits" in New York City are as follows: In Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shore at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Eristina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Port Cove, Astoria, Long Island City.

MISCELLANEOUS CONTRACTS.

(Continued from 116.)

Dredging.—Oakland, Cal.—Bids have been received as follows by Lt.-Col. Thomas H. Rees, Corps Engrs., U. S. A., 401 Custom-House, San Francisco, for dredging 1,700,000 cu. yds. in Oakland Harbor: (a) price per cu. yd.; (b) totals: Standard American Dredging Co., Merchant Exchange Bldg., San Francisco, (a) 14.25 cts., (b) $242,250; N. R. Harris, 95 Market St., San Francisco, (a) 14 cts., (b) $238,000; Tweeden & Jones, Tacoma, Wash., (a) 17½ cts., (b) $297,500. We are officially advised that the work may be readvertised.

✚***Removing Rock.**—San Francisco, Cal.—The contract for removing Rincon reef and rocks in San Francisco Harbor has been awarded to RUDOLF AXMAN, 95 Market St., San Francisco, at $23,000. No award was made for removing Centissima Rock. List of bidders noted on Aug. 10.

Pier.—Santa Monica, Cal.—G. M. Jones has applied for a franchise to construct a concrete pleasure pier to extend 450 ft. into the ocean. Estimated cost, $50,000.

✚**Pier.**—Santa Monica, Cal.—CHAS. W. CORBALEY, H. W. Hellman Bldg., Los Angeles, Cal., has been awarded the contract by the Abbot-Kinney Co. for the construction of a 600-ft. pier of modern construction, concrete-jacketed piling, and concrete foundation for motor.

Shed.—Montreal, Que.—Bids will be received until noon, Sept. 14, by M. P. Fennell, Jr., Asst. Secy., Harbor Comrs., for the construction of a shed on the new Victoria Pier, Montreal, similar to the present wharf sheds.

Dredging.—Fort William, Ont.—Bids will be received until 4 p. m., Sept. 13, by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for dredging required at Fort William.

Breakwater Extension, Etc.—Kincardine, Ont.—Bids will be received until 4 p. m., Sept. 20, by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for the construction of a breakwater extension to North Pier and dredging at Kincardine, Bruce County, Ont. Plans, specifications and form of contract can be seen and forms of proposal obtained at Ottawa, and at the offices of J. G. Sing, Dist. Engr., Confederation Life Bldg., Toronto, Ont.; H. J. Lamb, District Engr., London, Ont., and on application to the Postmaster at Kincardine.

Dredging.—Port Hope, Ont.—Bids will be received until Sept. 18 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for dredging required here. Combined specification and form of proposal may be obtained on application at Ottawa.

Wharf.—Red Bay, Ont.—Bids will be received until Sept. 25 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, Ont., for the construction of a wharf at Red Bay, Bruce County. Plans, specifications and form of contract can be seen and forms of proposal obtained at the offices of J. G. Sing, District Engr., Toronto; H. J. Lamb, District Engr., London, Ont., and the Postmaster, Red Bay, or at Ottawa.

Breakwater Extension. — Meaford, Ont.—Bids will be received until Sept. 20 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, Ont., for the construction of an extension to East Breakwater and removal of L on West Breakwater and dredging. Plans, specifications and form of contract can be seen and forms of proposal obtained at Ottawa, or the offices of J. G. Sing, District Engr., Toronto, Ont.; H. J. Lamb, District Engr., London, Ont., or the Postmaster, Meaford.

Wharf.—Windsor, Ont.—Bids will be received until Sept. 20 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, Ont., for the construction of a wharf. Plans, specifications and form of contract can be seen and form of proposal obtained at awa, and the offices of H. J. Lamb istrict Engr., London, Ont.; J. G. S District Engr., Toronto, Ont., or t Postmaster, Windsor.

Wharves.— John, N. B.—Bids will be received il Sept. 20 by R. C. Desrochers, Sec ub. Wks. Dept., Ottawa, for the co uction of a series of wharves in e Harbor of St. John. Plans, specif tions and forms of contract can b een and forms of proposal obtai at the offices of E. T. P. Shewen, istrict Engr., St. John, Geoffrey S , District Engr., Chatham, N. B. A. R. Decary, District Engr., Queb Que.; J. L. Michaud, District Engr., ntreal, Que.; J. G. Sing, District Eng Toronto, Ont., and H. J. Lamb, Distr Engr., London, Ont., or at Ottawa.

Cement.— ooklyn, N. S.—Bids will be received ntil Sept. 13, by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, Ont., for the supply of 20,000 bbls. of cement at railway station Brooklyn, Queens County, N. S. Specifications and form of contract can be seen at Ottawa, or the offices of J. L. Michaud, District Engr., Merchants' Bank Bldg., Montreal, Que.; J. G. Sing, District Engr., Toronto, Ont.; C. E. W. Dodwell, District Engr., Halifax, N. S.; G. A. Bernasconi, District Engr., North Sydney, N. S., and E. T. P. Shewen, District Engr., St. John, N. B.

Breakwater Extension.—Kelley Cove, N. S.—Bids will be received until Sept. 12 by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for constructing an extension to the breakwater at Kelley Cove, Yarmouth County, N. S. Plans, etc., may be seen at the office of E. G. Millidge, District Engr., Antigonish, N. S.

U. S. POSSESSIONS AND CUBA.

+Steel, Etc.—Panama.—Bids were received as follows on Sept. 1, by Maj. F. C. Boggs, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing about 1,800,000 lbs. of corrugated bar steel: Corrugated Bar Co., St. Louis, Mo., $16,364; United States Steel Products Co., New York, $15,027; J. B. KENDALL CO., Washington, $14,964 (awarded contract).

The contract was awarded to W. R. GRACE & CO., of San Francisco, Cal., for furnishing 339,000 ft. B. M., of Douglas fir lumber, various sizes, at $7,189.

Copper Conductor Bars, Etc.—Panama.—Bids will be received until Sept. 23 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing copper conductor bars and splice bars per Circular No. 647.

Dredging.—Hawaii.—Bids for dredging in Kahului Harbor, H. T., will be received until 11 a. m., Oct. 12, by the U. S. Engineer Office, Honolulu, Maj. W. P. Wooten, Corps Engrs., U. S. A. Information will be furnished on application to Lt.-Col. Thomas H. Rees, Custom House, San Francisco, Cal. or at Honolulu.

EXAMINATIONS.

Topographic Draftsman. — Washington, D. C.—The U. S. Civil Service Commission invites attention to the examination to be held on Sept. 13, to secure eligibles from which to make certification to fill vacancies in the positions of Topographic Draftsman and Copyist Topographic Draftsman. In addition to

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
9-16	Retaining wall, Washington, D. C. (S)	8-31
9-23	Structural steel, Cuba (S)	8-31
9-30	Sea wall, Norfolk, Va. (S)	8-31
9-30	Track, Norfolk, Va. (S)	8-31

Light, Heat and Power Plants.

Bids close.		Noted in issue of
9-11	Electrical supplies, Winnipeg, Man.	8-31
9-11	Electrical equipment, Cleveland, Ohio	8-31
9-12	City light contract, Gillespie, Ill.	9- 7
9-12	Transformers, etc., Winnipeg, Man.	9- 7
9-14	Conduit supplies, Washington, D. C.	9- 7
9-15	Lighting equipment, Lima Ohio	9- 7
9-15	Electric railway, Portland, Ind.	8-31
9-15	Electrical equipment, Sedro-Woolley, Wash.	8-31
9-15	Electric conduit and cable, St. Louis, Mo.	9- 7
9-18	Electrical fixtures, Los Angeles, Cal.	9- 7
9-23	Copper bonds, Washington, D. C.	9- 7
9-25	Heating and ventilation system, Los Angeles, Cal.	9- 7
9-25	Power-house, etc., Scott, Sask.	9- 7
9-25	**Electrical supplies, Brazil (Foreign)**	7-27
9-31	Hydro-electric power plant, Riverdale, Utah	8-24
10-11	Power house, Colonial Beach, Va.	8-31
1-30, 1912	**Power generating and pumping plants, Australia (Foreign).**	**6-15**

Bridges.

Bids close.		Noted in issue of
9- 7	Bridge, Barberton, Ohio	9- 7
9- 8	Bridge, Portersville, Cal.	9- 7
9- 8	Bridge work, Mendon, Ill.	9- 7
9- 8	Bridges, Oroville, Cal.	9- 7
9- 8	Bridges, etc., Cincinnati, O.	8-24
9- 8	Bridge, Visalia, Cal.	8-31
9- 9	**Bridge, Quincy, Ill.**	**8-17**
9- 9	Bridge work, Frankfort, Ind.	9- 7
9- 9	Bridges, Princeton, Ill.	9- 7
9-11	**Bridge, Kansas City, Kan.**	8-24
9-11*	**Bridges, Angleton, Tex.**	8-24
9-11	Bridge widening, Port Chester, N. Y.	8-24
9-11	Bridges, Ventura, Cal.	8-31
9-11	Superstructures, Lancaster, Ohio	8-31
9-11	Bridge, Warren, Ohio	9- 7
9-11	Bridge, Carlisle, Pa.	9- 7
9-11	Bridge, Fenwick, W. Va.	9- 7
9-11	Bridge, New Cumberland, Pa.	9- 7
9-11	Bridge, Philippi, W. Va.	9- 7
9-11	Bridge work, Newark, N. J.	9- 7
9-12	Viaduct, Pasadena, Cal.	9- 7
9-12	Bridge, Carlisle, Pa.	9- 7
9-12	Bridge, Lancaster, Pa.	8-31
9-12	Bridge, Pocatello, Idaho	8-31
9-12	Bridge, Southampton, N. Y.	8-31
9-14*	**Bridge, Reading, Pa.**	**8-17**
9-14	Bridge, Honesdale, Pa.	9- 7
9-15	Bridge, New Portland, Me.	9- 7
9-15	Bridge, Fayette City, Pa.	9- 7
-16	Bridge, Rockville, Ind.	9- 7
-16	Bridges, Emporia, Kan.	9- 7
-16	Bridges, Richmond, Va.	9- 7
-22	Bridge, Cincinnati, Ohio	9- 7
-23	Bridge, Clearfield, Pa.	9- 7
-25	Bridge work, Minneapolis, Minn.	9- 7
-25*	Viaduct, Fitchburg, Mass.	8-31
2	Bridges, Hendersonville, N. C.	9- 7
4*	Bridge, Bermuda, La.	9- 7

Buildings.

Bids close.		Noted in issue of
8	U. S. **post-office, Pontiac, Ill.**	**8-10**
8	School, **Somerville, Mass.**	**8-31**
9	Town hall, Canova, Sask.	9- 7
1	School, Alliance, Ohio	9- 7
1	Building, **New Orleans, La.**	**8-31**
	Church **building, Cedar Rapids, Iowa**	**8-17**
	Schools, **New York**	**8-31**
	U. S. **post-office, Athol, Mass.**	**8-17**
*	U. S. **post-office and court-house, Grand Rapids, Mich.**	**8-24**
	Sanitarium, Elizabeth, N. J.	**8-24**
	School, **Hot Springs, Ark.**	**8-10**
9-15	U. S. post-office, Pendleton, Ore.	8-24
9-15	**U. S. post-office, Washington, D. C.**	8-10
9-15	**Church, Stamford, Conn.**	8-10
9-15	Training school, Sacramento, Cal.	9- 7
9-15	Convalescent building, Sacramento, Cal.	9- 7
9-15	School, Crawfordsville, Ark.	9- 7
9-15	Passenger station, Truro, N. S.	9- 7
9-18	School, Norwood, Ohio	9- 7
9-18*	School, Navesink, N. J.	8-31
9-20	Church, Zanesville, Ohio	8-31
9-20	Refrigerating plant, etc., San Francisco, Cal.	9- 7
9-20	Dwelling, Yosemite, Col.	9- 7
9-20	Provincial home, Kamloops, B. C.	9- 7
9-20	Public building, Chesley, Ont.	9- 7
9-20	Court house, Selby, N. Dak.	9- 7
10- 3*	**Filtration plant, Montreal, Que.**	8-10
10- 6	U. S. post office, Pendleton, Ore.	9- 7
10- 9	U. S. post office, Winchester, Ky.	8-31
10-10	U. S. post-office, Washington, D. C.	8-31

Water-Works.

Bids close.		Noted in issue of
9- 7	Water-works, Wainright, Okla.	9- 7
9- 8	Water-works, Ogallala, Neb.	9- 7
9- 8	Water system, David City, Neb.	9- 7
9- 8	Relaying pipe, Boston, Mass.	9- 7
9- 8	Water mains, etc., New York	8-31
9- 8	Filter equip., Minneapolis, Minn.	8-31
9- 8	Valves, etc., Winnipeg, Man	8-31
9- 8	Water-works, Malmo, Neb.	8-31
9- 9	Pipe laying, Cambridge, Wis.	9- 7
9-11	Cast-iron pipe, Medford, Mass.	9- 7
9-11	Water mains, Stanford, Ill.	9- 7
9-11*	Water pipe, Pittsfield, Mass.	9- 7
9-11	Tanks, etc., Cincinnati, Ohio	9- 7
9-11	Water extension, Belle Plaine, Iowa	8-31
9-11	Water mains, International Falls, Minn.	8-31
9-11	Tower and tank, Vermillion, S. Dak	8-31
9-11	Water system, Dunseith, N. Dak	8-31
9-12	Water-works, Henry, S. Dak	8-31
9-12*	Intake pipe, Windsor, Ont.	8-24
9-12	Water pipe, Chicago, Ill.	9- 7
9-12	Reservoir, Fort Wayne, Ind.	9- 7
9-13	Water pipe, Chicago, Ill.	9- 7
9-13	Water mains, boiler plant, New York.	9- 7
9-13	Boiler, etc., New York	9- 7
9-14	Water system, Lyons, Ill.	9- 7
9-15	Water-works, Rutherfordton, N. C.	9- 7
9-15	Distrib. system, Alturas, Cal	9- 7
9-15	**Well, Sioux Falls, S. Dak.**	8-24
9-15	**Pump, Grand Forks, N. Dak.**	8-24
9-15	Aqueduct, St. Rose, Que.	8-31
9-16	**Pumping engine, Canton, Ill.**	8-24
9-16	Laying pipe, Fillmore, Cal.	9- 7
9-18	Water main, Tonawanda, N. Y.	9- 7
9-18	Well, Sullivan, Ill.	9- 7
9-18	Pumping machinery, Urbana, Ohio	9- 7
9-18	**Engine, Springfield, Ohio**	8-31
9-19*	**Water intake, etc., Muskogee, Okla.**	9- 7
9-20*	**Tank, etc., Fort Washington, Md.**	8-31
9-22	Water extensions, Fort Barrancas, Fla.	9- 7
9-23	Water pipe, West Allis, Wis.	9- 7
9-25	Reservoir, etc., Scott, Sask.	9- 7
9-25*	**Filtration plant, Fairfield, Iowa**	8-24
9-26	Water extension, Fort Sam Houston, Tex	8-31
9-26	**Blowoff, conduit, New York.**	9- 7
9-29	**Reservoir, Toledo, Ohio**	8-31
10- 1	**Tanks, Norfolk, W. Va.**	8-24
10- 1	**Pumping machinery, British India (Foreign)**	8-10
10- 2	**Ditches, Powell, Wyo.**	8-31
10- 4	**Pumping station repairs, New York**	9- 7
10-11*	**Water-works, Colonial Beach, Va.**	8-24
10-16	**Dam, Carlsbad, N. Mex.**	9- 7

Sewers.

Bids close.		Noted in issue of
9- 8	**Sewer, London, Ohio**	**9- 7**
9- 8	**Sewers, Portsmouth, Va.**	**9- 7**
9- 8	**Sewers, Cedar Rapids, Iowa.**	**9- 7**
9-11	**Sewer, Otsego, Mich.**	**9- 7**
9-11	Sewers, International Falls, Minn.	9- 7
9-11	Improving sewer system, Asbury Park, N. J.	9- 7
9-11	Sewer system, Avoca, Iowa.	9- 7
9-11	Sewers, Cincinnati, Ohio	9- 7
9-11	Drains, Toronto, Ont.	9- 7
9-11	Sewers, Syracuse, N. Y.	9- 7
9-11	Sewers, Columbus, Kan.	8-31
9-11	Sewers, Belle Plaine, Iowa	8-31
9-11	Sewer, Lemore, Cal.	8-17
9-11*	**Sewers, New Orleans, La.**	**7-13**
9-11	**Sewer, Lake Charles, La.**	8- 3
9-11	Sewers, New York	8-31
9-12*	Sewers, Toronto, Ont.	8-24
9-13	Sewers, Nashville, Mich.	9- 2
9-13	Sewers, Baltimore, Md.	9- 7
9-15	Sewer, South Haven, Mich.	9- 7
9-15	Disposal plants, Rock Hill, S. C.	8-24
9-15	**Sewers, Terra Haute, Ind.**	8-17
9-15*	Sewer, Altoona, Pa.	9- 7
9-20	Sewer extensions, Timmonsville, S. C.	9- 7
9-20*	Sewer, Reading, Pa.	9- 7
9-20*	Sewerage system, Franklinville, N. Y.	9- 7
9-28	Drain, Bethany, Ill.	8-24
10-11*	Sewers, etc., Colonial Beach, Va.	8-24

Streets and Roads.

Bids close.		Noted in issue of
9- 7	Paving, etc., Abilene, Tex.	9- 7
9- 7	Road improvement, Jersey City, N. J.	9- 7
9- 7	Paving, etc., Bastrop, Tex.	9- 7
9- 8	Street improvements, St Louis, Mo.	9- 7
9- 8	Paving, etc., Pittsburgh, Pa.	9- 7
9- 8	Paving, etc., Neosho, Mo.	9- 7
9- 8	Street improvements, Lewisburg, W. Va.	9- 7
9- 8	Grading, etc., Portsmouth, Va.	9- 7
9- 8	Grading, etc., Ashland, Ohio	8-31
9- 8	Road, Crownpoint, Ind.	8-24
9- 8*	Street improvement, Huntington, N. Y.	8-24
9- 9	Grading, etc., Mansfield, Ohio	8-31
9- 9	Road improvement, Wellington, Ohio	9- 7
9- 9	Gravel roads, Frankfort, Ind.	9- 7
9-10	Road improvement, Pittsburgh, Pa.	8-31
9-11	**Grading, New Philadelphia, Ohio**	**8-17**
9-11	Grading, etc., New York	8-31
9-11	Regulating, etc., New York.	8-31
9-11	Paving, Norwalk, Conn.	9- 7
9-11	Paving, Boston, Mass.	9- 7
9-11	Paving, Chehalis, Wash.	9- 7
9-11	Road improvement, Youngstown, Ohio	9- 7
9-12	Paving, etc., Toronto, Ont.	9- 7
9-12	Paving, etc., Pittsburgh, Pa.	9- 7
9-12	Grading, etc., Painesville, Ohio	9- 7
9-12*	Paving, Rockford, Ill.	9- 7
9-12	Street work, Philadelphia, Pa.	9- 7
9-12	Macadamizing, Hermosa Beach, Cal.	8-31
9-12	**Paving, Little Rock, Ark.**	8-24
9-13	**Paving, etc., Marietta, Ohio.**	8-31
9-15	**Macadamizing, etc., Columbus, Ohio**	8-24
9-15	**Road, Greenfield, Ind.**	**8-17**
9-15	Paving, Hill City, Tenn.	8-31
9-15	Road construction, Harrisburg, Pa.	9- 7
9-15	Grading, etc., Warren, Ohio.	9- 7
9-15	Road improvement, Shelton, Wash.	9- 7
9-15	Paving, etc., Indianapolis, Ind.	9- 7
9-18	Road construction, New Orleans, La.	9- 7
9-18*	Paving, Dorranceton, Pa.	9- 7
9-19	Road improvement, Pittsburgh, Pa.	9- 7
9-19	Grading, Spokane, Wash.	9- 7
9-19	Road construction, East Cambridge, Mass.	9- 7
9-21	Road improvement, Pittsburgh, Pa.	8-31
9-22	Road improvement, Cincinnati, Ohio	9- 7
9-25	Grading, etc., Minneapolis, Minn.	9- 7
9-25	Crushed stone, Sandusky, Ohio	9- 7
9-29	Street improvement, Cincinnati, Ohio	9- 7
10-10	Gravel road, Bluffton, Ind.	9- 7

Miscellaneous.

Bids close.		Noted in issue of
9- 8*	**Breakwater construction, Hawaii, (U. S. Poss.)**	**7-13**
9- 8	**Steel rope, Los Angeles, Cal.**	**9- 7**
9- 9	**Drainage district work, Kankakee, Ill.**	**9- 7**
9- 9*	Dredging, Wilmington, Del.	8-17
9-11*	Breakwater extension, Buffalo, N. Y.	8-17
9-11*	Dredging, Wilmington, Del.	8-17
9-11	Breakwater, Thessalon, Ont.	8-17
9-11*	Wagon shed, Fort Terry, N. Y.	8-24
9-11	Repairing bath, New York.	8-31
9-11	**Hose, piles, etc., Panama (S. S. Poss.)**	8-31
9-11	Cement, Leavenworth, Kan.	9- 7
9-12	Borings, New York	9- 7
9-12	Ditch, Fairmont, Minn.	9- 7
9-12	Breakwater extension, Kelley Cove, N. S.	9- 7
9-12	Canal, Ottawa, Ont.	8-31
9-12	Steel rail, brass, Washington, D. C.	8-31
9-12	Steel plates, rivets, Panama (U. S Poss.)	8-31
9-12*	New channel, Clarinda, Ia.	8-24
9-13	Projectiles, Washington, D. C.	8-24
9-13	Breakwater, dredging, Port Stanley, Ont.	8-24
9-13	Pier, Wheatley, Ont.	8-24
9-13	Wharf, etc., Thornbury, Ont	8-24
9-13	Dredging, Wilmington, Del.	8-24
9-13	Fort William, Ont.	9- 7
9-13	Cement, Brooklyn, N. S.	9- 7
9-13	Tire and wire, New York	9- 7
9-13	Fire alarm telegraph, New York	9- 7
9-14	Shed, Montreal, Que.	9- 7
9-14*	Dredging, New York	8-17
9-14	Lock tenders' houses, Mobile, Ala.	8-24
9-14*	Dredging, New York	8-17
9-14	Storage sheds, New York	9- 7
9-15	Railway roadbed, El Paso, Tex. (Rys.)	8-24
9-15	Dredging, Wilmington, Del.	8-24
9-15*	Removing rock, Newport, R. I.	8-24
9-15	**Railway construction (Rys.), Ottawa, Ont.**	**8-17**
9-15	Rip-rap, Washington, D. C.	8-31
9-15*	Wire fencing, Tacoma, Wash	8-31
9-15*	Subways, Toronto, Ont.	8-31
9-15	Ditch, Olivia, Minn.	9- 7
9-15	Ditch, Willmar, Minn.	9- 7
9-16	Retaining wall, Washington, D. C.	8-31
9-17	Dredging, Washington, D. C.	9- 7
9-18	Dredging, Port Hope, Ont.	9- 7
9-18*	Dikes, New York	8-31
9-18	Fire-alarm telegraph, New York	9- 7
9-19	Dredging, Donaldsonville, La.	8-31
9-20*	Dredging, St. Augustine, Fla.	8-31
9-20	Jetties, wall, Cleveland, Ohio	9- 7
9-20	Breakwater extension, Meaford, Ont.	9- 7
9-20	Wharves, St. John, N. B.	9- 7
9-20	Wharf, Windsor, Ont.	9- 7
9-20	Breakwater extension, Kincardine, Ont.	9- 7
9-21*	Dredging, Bridgeport, Conn.	8-24
9-21	Ditch, Thief River Falls, Minn.	8-31
9-22*	Dredging, Norfolk, Va.	8-24
9-22*	Dredge, Wheeling, W. Va.	8-31
9-23	Structural steel, Cuba (U. S. Poss.)	8-31
9-23	Copper bars, etc., Panama (U. S. Poss.)	9- 7
9-25	Crushed stone, Sandusky, Ohio	9- 7
9-25	Wharf, Red Bay, Ont.	9- 7
9-25*	Metal lockers, Chicago, Ill.	8-31
9-25	Wharf, boat-house, Kingston, Ont.	8-31
9-25	Fire apparatus, Winnipeg, Man.	8-24
9-27*	Dredging, Washington, D. C.	8-31
9-30	Track, Norfolk, Va.	8-31
9-30	Sea wall, Norfolk, Va.	8-31
10-2*	Lockkeepers' houses, Wheeling, W. Va.	9- 7
10-2*	Dredging, etc., Buffalo, N. Y.	9- 7
10- 2*	Extending jetty, Portland, Ore.	9- 7
10- 3*	Bulkhead, Providence, R. I.	8- 7
10- 7*	Dredging, etc., New York	9- 7
10-10*	Mail - handling apparatus, Washington, D. C.	8-31
10-10*	Mechanical equipment, Washington, D. C.	8-31
10-10	Elevator plant, Washington, D. C.	8-31
10-12	Dredging, Hawaii (U. S. Poss.)	9- 7
10-17*	Garbage plant (Garbage), Paterson, N. J.	8-31

Examinations.

Examination date.		Noted in issue of
9-21	**Fuel Engineering Chemist, New York,**	**8-24**

the vacancies to be filled as a result of these examinations, it is expected to fill a vacancy in the Engineer Department at Large at Fort H. G. Wright, N. Y., at a salary of $900 to $1,000 a year, unless it shall be decided in the interest of the service to fill such vacancy by reinstatement, transfer, or promotion. It is desired to fill this vacancy by the appointment of a person qualified as Topographic Draftsman, but if suitable eligibles are not secured, the vacancy may be filled by the appointment of a Copyist Topographic Draftsman eligible. Examination form 1312.

INDUSTRIAL NOTES.

Ford, Buck & Sheldon, civil, structural, mechanical and electrical engineers, of 60 Prospect St., Hartford, Conn., have recently purchased the engineering business of E. P. Anger, of Middletown, Conn., and will open a branch office at 480 Main St., Middletown.

The Oklahoma Engineering Co., Anadarko, Okla., has recently been incorporated. P. W. Keeney, President; Geo. W. Fry, Vice-Pres. and Secy. The company will open offices in Oklahoma City, 902-903 State National Bank Buiding. A general line of engineering work will be carried on. x

The Immigration into the United States in the year ending June 30, 1911, was 878,587, compared with 1,041,570 in 1910, and 751,786 in 1909. The largest number of immigrants coming into the United States in any one year was in 1907 when they numbered 1,285,349. Deducting the laborers who returned to their native countries, the net gain in population from alien sources was 540,300 in 1911, which is smaller than any year since 1908, when the net gain numbered only 209,867.

The Labor Demands on the Harriman Lines were refused Aug. 27 by Julius Kruttschnitt, Vice-President and Director of Maintenance, for the following reasons:

"These are the reasons why we decline to surrender to an irresponsible committee of federated employees, representing a very small portion of the public, trusts confided to us by the entire public, and why we will not concede to such a committee the right to dictate whether we shall or shall not fulfil for twenty millions of people in seventeen states the duties clearly prescribed by law.

"The employees' demands are substantially as follows:

"First—Recognition of the shop employees' federation.

"Heretofore issues arising with a machinist, boilermaker, blacksmith or sheet metal worker were taken up with his associates of that craft. When not successfully adjusted strikes of that craft have followed, but they were not serious enough to prevent the road performing their public services for which they were created. Under the change proposed an issue of a small system road in Louisiana might stop all shop work throughout the system by requiring members to strike in California, Oregon, Washington or Nebraska.

"Second—All present or future employees will join the federated association within thirty days.

"This means the discharge of all employees who will not join, or an absolutely closed shop.

"Third—That a company agree that the final settlement of differences shall rest with a federated committee representing all five crafts.

"This would place the employees of all crafts behind a demand made by any one craft, and would encourage unreasonable demands not likely to be made by individual crafts.

"Fourth—The restriction of the number of apprentices.

"This would deny to American boys the opportunity to learn trades.

"Fifth—A flat increase of seven cents an hour for all mechanics, apprentices and helpers, an average for the entire shop forces of 23% and a reduction of hours and other demands averaging 13% additional.

"The Southern Pacific is now paying higher wages than any other railroad in the United States and has increased the pay of all shop craf[illegible] 12½% in the last five years.

"Sixth—The abolishing [illegible]iece premium or bonus systems, s[illegible] foremanships to be filled by pro[illegible]ns from federation employees. Th[illegible] in direct conflict with the public [illegible] recently expressed, that increase[illegible]pense of carriers should be met w[illegible]ncreased efficiency of operation an[illegible]t by increase of freight rates.

"Seventh—That no form[illegible] physical examination or personal [illegible]rd shall be required.

"This denies to the c[illegible]any the right of every citizen to r[illegible]e of persons offering his service [illegible]ences of competency, good characte[illegible]d health, and deprives the compani[illegible] all protection under the fellow s[illegible]nt laws of many states.

"Eighth—That if forces [illegible] reduced employees are to indicat[illegible]ho shall be laid off.

"This would embarrass t[illegible] company in efforts to increase effici[illegible] by ridding the service of the in[illegible]ent employees.

"Ninth—That no employ[illegible]elonging to the federation be disch[illegible]ed without the consent from the [illegible]mployees' committee.

"This would require the c[illegible]pany involved to meet a committ[illegible]epresenting all its craftsmen, which [illegible]ommittee would owe allegiance to a g[illegible]ral committee composed of allied c[illegible]ftsmen of all lines of the Harriman s[illegible]m."

For other Proposal Advertisements see pages
57, 58, 61, 62
of Advertisements and Construction News, page 122

SEWERAGE SYSTEM.

CHANGE OF DATE.

Franklinville, N. Y.

The proposals for the Franklinville, N. Y., Sewerage System has been extended to Sept. 20th at noon. See adv. in Aug. 17th number of this publication.

A. H. COLE, Village Clerk,
Franklinville, N. Y.

RESERVOIR.

Toledo, Ohio.

Sealed proposals will be received at the office of the Director of Public Service, Toledo, Ohio, until twelve o'clock noon of the 29th day of September, 1911, and then publicly opened and read, for the construction of a Filtered Water Reservoir, same being Contract Number 19 of the Improvement of Water Supply

The work to be done includes the furnishing of labor and material and constructing complete a filtered water reservoir having a capacity of approximately fifteen million (15,000,000) gallons, located upon the ground adjacent to the High Service Pumping Station. This contract will include making the necessary excavations, constructing the concrete foundations, walls, columns and roof, including steel reinforcement, making the necessary connections to the distribution well and blow-off, setting the sluice gates, building the gate house and doing the necessary back filling.

Payment will be made as stipulated in the form of Contract for the performance of the above work, and which Form of Contract is on file in the office of the Director of Public Service.

Copies of the Plans, Proposal Forms, Specifications and Forms of Bonds and Contracts can be seen at the office of the Chief Engineer, Valentine Building, Toledo, Ohio.

Copies of the Plans and Specifications will be furnished by the Chief Engineer on payment of Twenty-five ($25.00) Dollars for each set, which will be refunded provided they are returned in good order on or before October 5, 1911.

Each proposal or bid must contain the full name of every person or company interested in the same, and shall be accompanied by a bond, executed by the bidder and a Surety Company satisfactory to the Director of Public Service, on a form marked "A" and attached to the form of proposal, in the sum of ten (10) per cent. of the amount of the proposal or bid; or the bidder may deposit with the Director of Public Service, in lieu of such bond, a certified check on a solvent bank in the City of Toledo, Ohio, payable to the order of the Director of Public Service, equal in amount to such bond.

Said bond or certified check is required as a guarantee that if the bid is accepted a contract will be entered into and the performance of it properly secured.

The contract bond will be fifty (50) per cent. of the amount of the contract.

Labor and material bid for must be separately stated, with the price thereof.

Bidders must furnish satisfactory evidence of their experience and ability to construct work of the character required.

Bidders must use printed forms, as none other will be received.

The Director of Public Service reserves the right to reject any and all bids or accept any bid which he may deem advantageous to the City of Toledo.

By direction of
J. R. COWELL,
Director of Public Service.
Attest: FRED SHANE,
Secretary.

WATER INTAKE AND INLET TOWER.

SPECIAL BOND ISSUE OF 1911.
WATER DEPARTMENT,
Muskogee, Oklahoma.

Sealed proposals will be received by the City Council of the City of Muskogee, Oklahoma, until Tuesday, September 19th, 1911, at 10 o'clock a. m., and opened immediately thereafter, for the construction of a Water Intake and Inlet Tower. All bids must be filed with Chas. Wheeler, Jr., City Clerk.

The Water Works Intake is 54" in diameter, 2,600 ft. long; to be laid across the Arkansas River and up the bed of the Grand River.

The Intake Tower is a concrete structure built at the upper end of the intake.

Bids are invited for the construction, at a comparatively shallow depth, in open trench. Alternate bids are invited for the construction in rock tunnel at a greater depth, tunnel to be lined either with brick or concrete.

Proposals for this contract shall be accompanied by a certified check for $5,000, made payable to the City of Muskogee, Oklahoma, without conditions.

Plans and specifications can be seen and secured at the office of the City Engineer, Muskogee, Oklahoma, or at the office of the Consulting Engineer, 114 Liberty Street, New York City, upon payment of $3.00.

The right is reserved to reject any or all bids or to accept that one which, in the judgment of the City Council, is for the best interest of the City.

By order of the City Council.
E. H. FLEMING,
Commissioner of Water, Sewer and Lights.
ALEXANDER POTTER,
Consulting Engineer.
T. P. CLONTS,
City Engineer.

2,000 FT. REINFORCED CONCRETE SEWER.

Altoona, Pa.

Sealed proposals will be received by the Board of Public Works of the city of Altoona, Pa., and publicly opened at 3 o'clock Friday afternoon, Sept. 15th, 1911, for the construction of a 3 feet by 5 feet Reinforced Concrete Sewer with intake chamber, manholes, inlets and other appurtenances in Maple avenue, between Twenty-seventh (27th) and Thirty-first (31st) streets.

Plans and specifications may be examined in the office of the City Engineer.

All bids must be strictly in accordance with instructions to bidders and upon blanks furnished for that purpose by the City Engineer and be accompanied by a certified check for Six Hundred ($600.00) Dollars or the same amount in cash to guarantee the signing of the contract and the furnishing of required bond if contract be awarded to the bidder.

Bids to be addressed to "President, Board of Public Works," and marked "Proposals for Reinforced Concrete Sewer in Maple Avenue," and must reach the City Engineer's office before 3 o'clock. Friday afternoon, Sept. 15th, 1911.

The Board reserves the right to reject any or all bids.

W. M. C. CRAINE, President;
WM. T. McCONNELL,
HARRY E. GAMBLE,
Board of Public Works.

BRIDGE.

Bermuda, La.

Sealed bids for the construction of a steel highway bridge over the Cane River at Bermuda, La., will be received by the bridge committee up to twelve o'clock noon of Wednesday, October 4, 1911.

Bids will be addressed to P. E. Prudhomme, Pres. Police Jury, Natchitoches, La., and shall be accompanied by a certified check in the sum of six hundred dollars.

The right to reject any or all bids is reserved. For copies of plans and specifications address Ira W. Sylvester, C. E., Alexandria, La.

P. E. PRUDHOMME,
Pres. Police Jury.

SEWER.

Reading, Pa., Sept. 5, 1911.

Sealed proposals will be received at the office of the City Clerk until 2 P. M., Wednesday, Sept. 20, 1911, for the construction of a Concrete Storm Sewer on Franklin Street between the Schuylkill Navigation Company's canal and Sixth Street.

Sealed proposals will be received at the same time and place for the construction and reconstruction of a concrete storm sewer, known as the Rose Valley Sewer, on Seventh, Laurel and Neversink Streets from a point about 200 feet south of Willow Street on Seventh to the Philadelphia and Reading Railroad tracks south of Muhlenberg Street.

Each bid must be accompanied by a proposal bond or certified check for the sum of two thousand ($2,000) dollars, and the successful bidder will be required to enter into a contract bond for the sum of forty (40) per cent. of the amount of contract awarded.

Blank forms of proposals, proposal bonds and specifications may be obtained at the office of the City Engineer, City Hall. Plans may be obtained by making a deposit of ten ($10) dollars for each set, which deposit will be remitted to bidders upon return of plans.

Proposals must be endorsed with the name of the sewer to which bid refers and addressed to the Board of Public Works, in care of Lincoln S. Ramsey, City Clerk.

The right is reserved to reject any or all bids.

By order of the Board of Public Works,
EDMUND B. ULRICH,
City Engineer.

BULKHEAD WALL OR RIVER WHARF AT FIELDS' POINT.

Office of the Board of Contract and Supply,
City Hall, Providence, R. I.,
Sept. 5, 1911.

Sealed proposals will be received at this office until 2.15 o'clock P. M., Tuesday, October 3, 1911, for the construction of a bulkhead wall or river wharf, 1,400 feet, more or less, along the harbor line from Fields' Point northerly. Terms and requirements for the bidding and plans and specifications for the work may be procured at the office of the City Engineer, City Hall. Plans, specifications and proposals for said bulkhead wall or river wharf of other construction than specified in said specifications, as an alternate to the work described, will be considered from responsible and experienced contractors.

By order of the Board of Contract and Supply,
HENRY FLETCHER,
Mayor and Chairman.
WM. C. PELKEY,
Clerk.

U. S. ENGINEER OFFICE, Portland, Ore., Sept. 2, 1911.—Sealed proposals for constructing receiving wharf and extending north jetty at mouth of Siuslaw River, Oregon, will be received here until 11 A. M., Oct. 2, 1911, and then publicly opened. Information furnished on application. JAY J. MORROW, Maj. Engrs.

Situations Open
(Or Vacant)

WANTED—A designing mechanical engineer with some knowledge of concrete construction and of designing forms. BLAW COLLAPSIBLE STEEL CENTERING COMPANY, Pittsburg, Pa. 10-2t

WANTED—Experienced structural steel engineer, capable of designing all classes of structural steel for buildings, and of taking charge of drafting offices doing all classes of structural and ornamental iron and concrete reinforcing, by Mosher Structural Steel Co., Dallas, Texas. Advise age, education, present and past employment, and at what class of work engaged at each place, and in what official capacity; whether married or single, least salary considered; references, and when available. Address W. S. MOSHER, General Delivery, New York City. 10-1t

WANTED—Engineer, to estimate, design and solicit steam power, heating and ventilating plants; state experience, reference and salary. Address "A. B. 10," Engineering News, New York. 10-1t